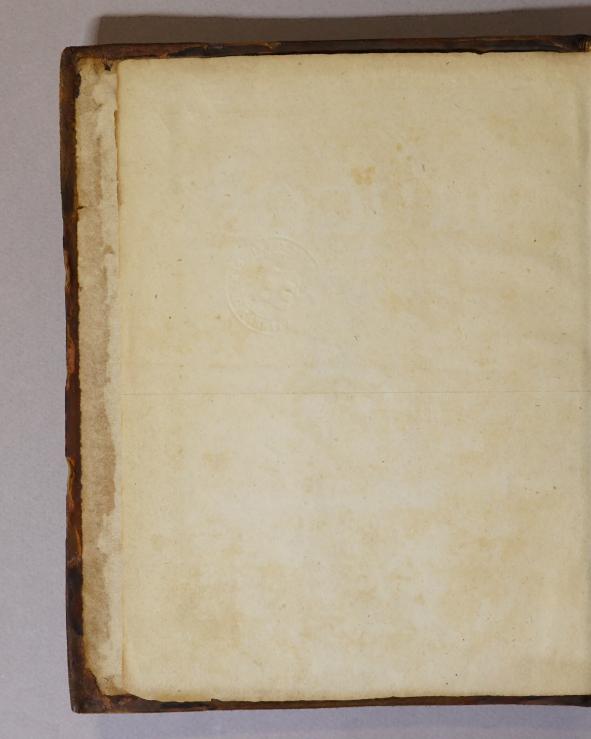


21439/24556 Worcestershine National History Society Presented by O. f. Soyd, Esq. March 11 1848



A Compleat

HISTOR DRUGGS.

Written in French by Monsieur POMET, Chief DRUGGIST to the present French KING; to which is added what is further observable on the fame Subject,

FROM

Meff's LEMERY, and TOURNEFORT,

Divided into Three Classes,

Vegetable, Animal and Mineral;

With their Ufe

In Physick, CHYMISTRY, PHARMACY, And several other A R T S:

ILLUSTRATED

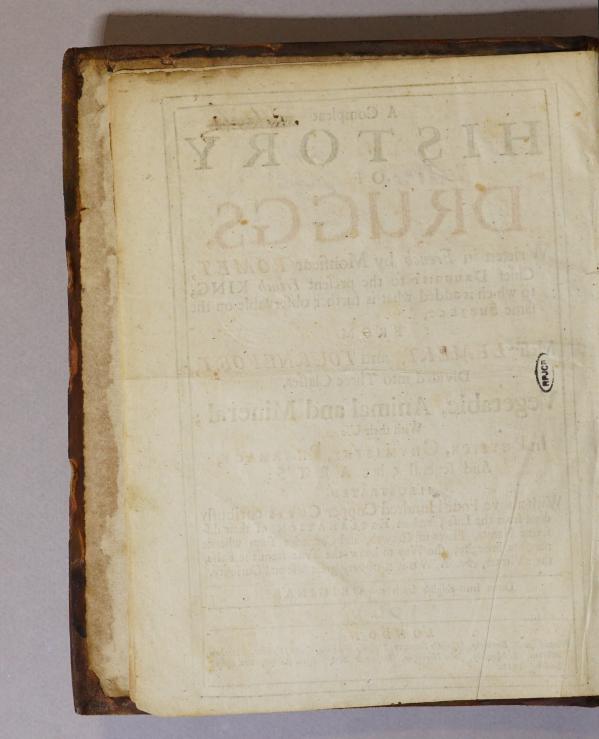
With above Four Hundred Copper Currs curiously done from the Life; and an EXPLANATION of their different Names, Places of Growth, and Countries from whence they are brought; the Way to know the True from the False, their Virtues, &c. A WORK of very great Use and Curiosity.

Done into English from the ORIGINALS.

VOL. I.

LONDON:

Printed for R. Bonwicke, William Freeman, Timothy Goodwin, John Walthoe, Matthew Wotton, S. Mansnip, John Nicholson, Benjamin Tooke, Rich. Parker, and Ralph Smith. 1712.



TO THE

Truly Ingenious and Learned Dr. SLOANE, Physician extraordinary to Her most Sacred Majesty, Secretary to the Royal Society, and Fellow of the College of Physicians, London.

lucd are fame Rule with Mon ich boul

T think my self under many Obligations of offering this Undertaking to you, which I should be much wanting to my felf if I did not acknowledge: The First is, that you have been a very generous Encourager of this Defign; not only by recommending the Work, but in affifting the Performance, which is a Favour I beg Leave to thank you for, as well as the kind Present you made me of your Natural History of Famaica. And tho' these were Inducements, they were not the real Motives that made me think this Work cou'd come to none so properly as your self: But it was the Consideration, that you are, without the least Tincture of Flattery, the only Person of the Faculty in these Kingdoms, who of late Years have made the Materia Medica your Study: So that it is hard to say, whether your Discoveries in the Theory of Medicine, or your judicious Improvements of those Discoveries in the Practice, have exceeded.

It wou'd look vain in me to attempt the Characters of my Authors to one who is so much better acquainted with them, and

The DEDICATION.

whose single Recommendation wou'd be sufficient to make the publick value their Productions: But I flatter my self you will forgive me if I briefly inform you of the Method us'd in Compiling and Translating this Work, wherein I hope you will be of Opinion I have done my Authors no Injustice: For in the first Place I have taken Monsieur Pomet for my Text, making Use of the Liberty of throwing out Repetitions, or whatever else was foreign to the Purpose, or better describ'd by others, especially Messiures Tournefort and Lemery, whom you know well are more accurate and concile. And in the next Place I have added several Things to Mr. Pomet, wherein he was erroneous in Description, Dose, or Choice of Druggs, which were much better known in these Countries, and more in Use amongst us: And indeed I have pursued the same Rule with Monsieur Lemery, but with more Caution; so that it made this a Work of more Time than I expected, when I first engag'd in it: And yet perhaps I have not come up to the Taste of some curious Gentlemen, who are more accurate in Botany than I can pretend to: Therefore I throw my self entirely upon your Favour, because I am assur'd you have too much Candour for Industry, and Concern for useful Knowledge, not to pardon small Faults for the Sake of many Things that may be commendable and instructive, and that otherwise wou'd not be so readily usher'd into the World.

And tho' it is certain that the Knowledge and Choice of Druggs is one of the most useful and important Parts of Physick, yet it has been the most neglected of any to this Day; and it is not easily apprehended how much the Publick suffers in the Sale, which is daily made of I know not what sophisticated and decay'd Druggs, which are not capable of producing the Effects that are design'd by them, and expected from them, either to restore or preserve the Health of Mankind. We may

The DEDICATION.

yet be more surpriz'd in the fatal Mischief that slows from Mens Ignorance in the common Choice of Druggs; and that nothing is more frequent in Druggists and Apothecaries Shops than adulterated Medicines, which deserve not the least Tittle of those pompous Names, by which they enhance the Prices of them.

Hence, Sir, you may plainly see our Author's Designs were to expose the ill Practices of those Men who did so much Prejudice to the Profession of Physick, by rendring the Practice precarious, and fetting a greater Value on a decay'd Drugg, or Composition of the Shops, than on the Life or Health of one of their Fellow Creatures: Therefore as one can scarce discover their Works of Darkness without suffering by the Malignity of their Tongues, who so undeservedly make a Gain of Peoples Credulity, I stand in Need not only of an Advocate but a Protector: And fince every one knows that you are universally skill'd in all the most curious and useful Secrets of Nature, either in the Vegetable, Animal, or Mineral Kingdoms, whatever is here treated of in the following Books, your Travels into those Countries abroad, where many of them are produc'd, and your Diligence in furnishing your Musaum at Home, from all Parts of the World, have made you intimately familiar with; so that no Person but will allow your Approbation a sufficient Sanction to this Work, and your Protection to the Compiler hereof, who is with the utmost Esteem,

SIR,

Your very Humble

Servant to Command, &c.

The DEDICATION.

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SIR

Torr wery Hamble

Servant to Consumed Sec.

PREFACE.

HE Knowledge of Simple Druggs is a Study so agreeable, and so exalted in its own Nature, that it has been the Pursuit of the finest Genius's in all Ages: Several Princes have apply'd themselves to it with a great deal of Satisfaction to their own Minds, and Improvement to the Publick, as Mesue, Matthiolus, &c. to whom we are oblig'd for the first Essays of Medicine, which is an indispensible Knowledge to all who are concern'd in Composition, especially Apothecaries; for which Reason they ought to begin with this Study, before they undertake Pharmacy, else they can never prepare any Thing with Exactness, which is the Occasion of so many gross Errors that attend the Business, to the great Prejudice of the Patient; for they ought to know as well as the Druggist, from whence every Drugg comes, because different Climates encrease or lessen much their Virtues. They ought to distinguish them by their Names, their Figures, their Substance, their Touch or Feeling, their Weight or Lightness, their Colour, their Smell, their Taste, and take particular Care that those which come from foreign Countries be not counterfeited or adulterated: For the Merchants, thro whose Hands they pass, are sometimes too coverous of extravagant Gain, so that they sophisticate and counterfeit so well, that it is a hard Matter to discover the Cheat if we have not been very conversant, or well acquainted with those Druggs before. Druggists and Grocers themselves are sometimes the first deceived in buying great Quantities of false Druggs for good ones, and selling 'em so again; for which Reafon it is very necessary that they shou'd be well skill'd in the Knowledge of the True from the False, which is gain'd by a continued Trade in them, and a Frequency of seeing them. A Druggist ought to apply himself as much as poffible to get Druggs at the first Hand, and to know the Places of their Growth, and their true natural History: For most Books that have been writ hitherto, have told us nothing but Fables on this Head.

The Publick will find themselves much indebted to Monsieur Pomet, for the great Number of curious and useful Remarks they will meet with in this

General History of Druggs; which is further enrich'd by the Discoveries of a great many Things that before were in the Dark, but fince brought to Light, by the Labour and Industry of him, and the more accurate Lemery: But Interest we see prevails upon Curiosity, since we meet with very sew Merchants that will imploy any Part of their Time to instruct themselves in these Affairs, which they are not perswaded are any ways necessary to their

Busines.

Besides this Work is not only useful to those who profess Physick, and who will put nothing in the Composition of Medicines that they prescribe, but choice Druggs; but likewise it is serviceable to Students in Pharmacy, to Druggists and Apothecaries, who may improve themseves by what they will find in this Work, from whence they may learn to make a right Judgment of what is true or false in the Use or Trade of Druggs; since People that compose Medicines ought to know that what they buy will answer the Ends they propose: Besides there are several Artists and Trades-Men, who make use of Druggs, and whom it is necessary, and of great Importance to the Publick that they should not be cheated or impos'd on, as Surgeons, Goldsmiths, Painters, Dyers, Farriers, &c.

I am perswaded that those who read this Work will be satisfied, that they never saw one Treatise of Druggs so compleat; for here is not only collected what may be found scatter'd in a great many Authors, but a great many Things that were unknown before Pomet's General History of Druggs, or at least very sew of them were ever taken Notice of by any former Author; for he acknowledges to have Abundance of Materials given him by Mr. Tournefort, and several others of his Friends, who made it their Business to assist him with all the new Discoveries they could meet with. And tho' this Work is not swell'd into many Volumes of much larger Size than the two present are, yet they contain twice as much as is in Pomet, besides the Additions that are necessary to the Text from Lemery; which considering the Number of Figures, and the neat Performance of them, which are nothing inseriour to the Originals, renders this one of the cheapest Books that has appear'd of latter Tears, and been consulted for the Good of the Publick, many of the Figures being brought into one Plate, on Purpose to prevent the Book from Swelling to too large, and too exorbitant a Price, so to destroy the Usefulness of the Defign, and the Sale of the Book together.

All the Druggs herein mention'd have either their proper Latin Names, or the Names given them by the Country from whence they are brought, with their Etymology where most pertinent, their Description and History taken from Mr. Lemery's Univertal Treatile of Simple Druggs; the judicious Author whereof has endeavour'd to inform himself both from ancient and modern Authors, and the Relations of several Travellers, of whatever could be known

concerning the Substances and Principles of which each Drugg is composed, and its Quality, and as succinct as possible, to give any Idea of the Thing treated of, that might be satisfactory. Now all Druggs are taken from Animals, Vegetables, and Minerals, their Parts and what proceeds from thence; as their Hair, Nails, Horns, Milk, Blood, and Excrements: Under Vegetables are comprehended Trees, Shrubs and other Plants, with what comes from thence; as Roots, Barks, Flowers, Fruits, Seeds, Mushromes, Mosses, Rosins, Pitches, Turpentines and Balsams. Under Minerals are understood

Minerals, Metals, Marchasites, Stones, Earths and Bitumens.

All Animals, according to the most probable and most received Opinions come from Eggs, and are there enclosed, as it were, in Abridgment, 'till the Seed of the Male penetrate their Covering, and stretches them sufficiently that they are ready for Hatching them: There enters into their Vessels a chylous Juice, which being push'd forwards by the Spirits, circulates thro' the whole Habit of the little Body, nourishes and dilates by little and little, which makes what we call Growth. This Circulation, repeated several times, makes the nutritious fuices so refined and attenuated, that they gain a red Colour, and are converted into what we call Blood. This natural Operation has a great Resemblance to several Chymical Operations, by which, in attenuating and dissolving the sulphureous or oily Substances, we can make a red Colour, which notwithstanding has a great deal of Difference: For Example: If we boil in a Matrass one Part of Chyle or Milk, with two Parts of Oil of Tartar, per Deliquium, the white Liquor will become red, because the Salt of Tartar being rarified, dissolves and exalts the uncluous Part of the Milk, and reduces it into a Kind of Blood. If we boil together in Water one Part of common Sulphur, and three Parts of Salt of Tartar, the white or yellowish Liquor that was before acquires a red Colour according to the Quantity of the Sulphur dissolv'd. If we digest upon the Fire Flower of Sulphur in Spirit of Turpentine, the Liquor gains a red Colour.

The Circulations that are made perpetually in Animals, exalt so much their Substances, and render them so disposed for Motion, that the Principles which arise from thence are almost wholly volatile: But indeed these Principles are not equally volatile in all Animals: For Example: Fish afford less volatile Salts than terrestrial Animals. The Scorpion, the Crab, and the Eel, yield less than the Viper, Earth-worms and Snails, afford less than Serpents,

Ivory less than Hart's-horn; and so of the rest.

The different Degrees of Volatility that are in Animal Substances give 'em different Virtues one from the other; so those which have very volatile Salts, are usually reckon'd Cephalick and Diaphoretick; as the Viper, Human Skull, Hart's-horn, Goat's-Blood, Elk-Claw, because the Matter being heated

beated in the Viscera, push forth their Salts into the Brain, and by the Pores of the Body. Those whose Substances are lese volatile have an aperitive Virtue, such as is to be met withal in Hog-lice, Craw-fish, because the Salts of these Animals being heavier, are more inclinable to precipitate and

open the urinary Passages.

Every Plant arises from its Seed, and is confin'd in Miniature as in an Egg, after the same Manner as Animals; the Earth becomes a Matrix to the Seed, it softens it and extends the Bark, opens the Pores, and by a nitrous Fluid it is penetrated and unsheath'd from the Husk, so that the Parts of the little Plant are stretch'd, that were before wound or lock'd up together confusedly, and then this small Plant begins to appear upon the Surface of the Earth, and the nutritious Juice or Sap circulates in the Fibres that do the Office of the Veins, Arteries, and Nerves; they dilate, extend, and grow to a certain determinate Size, limited and appointed by the great Author of Nature.

A Plant draws its principal Nutrition by the Root, because the Pores thereof are better dispos'd than others, for receiving in the Juice from the Earth. It is remarkable, that if the Root of a small Plant is continued in the Seed, it is to be met withal at Top, and the Stalk at the Battom, as it happens very frequent, that the Juice which enters by the Root, and which is driven by the Heat of the Sun, makes a half Turn from the Stalk, and mounts upwards according to its aeterminate End. This Juice, in Circulating in the Vessels of the Plant, purifies it self, is rarify'd, exalted, and brought to Perfection after the same Manner as the Chyle and the Blood acquire their Perfection by Circulation. Then the more exalted and spirituous Parts of the Juice, which may be call'd the Animal Spirits of the Plant, are imploy'd upon the Flowers and Fruits; the less subtle Parts supply Nourishment for the Stalk, the Branches, and the Leaves, the grosser Parts still congeal or coagulate into Gums, Rosins and Balfams: Those that are the grossest of all, produce an external Bark, Moss, and several Excrescences. Tho' all the Plants of the Earth receive their Nutrition from one and the same Spring, they notwithstanding every one of them acquire different Qualities, occasion d from the Diversity of Fermentations and other natural Elaborations, that are produced by the Texture or Disposition of their different Fibres. We may distinguish Rofins from Gums, in that Rosins are much fatter, and that they dissolve consequently much easier in Oil.

The Origine of Minerals is different from those of Vegetables and Animals; this proceeds from the Congelation of acid or faline Waters, charg'd with such Matter as will dissolve in the Earth. Metals are produced from a greater Degree of Concoction, a longer Digestion and closer Union of the Minerals,

which is separated or divided from the grosser Parts in the Mines, after the same Manner as Gold and Silver separate themselves from their Metals in the Cupel. All Mines are not in a State or Condition of producing Metals, for it is necessary there should be a Disposition and natural Heat capable of raising extraordinary Fermentations and Eleborations; and high Mountains are usually the properest Places for these Productions, because the Heat therein containd

is more regular and exact than others.

It is not Chance only that conducts us to the Discovery of metallick Mines, but those who apply themselves that Way observe or take Notice of Several Circumstances, which direct them to the Places where they may be found: For Example; When on a Mountain, or in the Clifts and Breaches of Rocks they meet with Marchasites, and small heavy Stones of a Mineral Kind, or that they perceive on the Surface of the Earth several Mineral Veins, these are Signs that there is something to be found that is likely to answer their Expectations, and that they may be assured of Success.

When in certain Streams or Rivulets there is seen a Sort of Sand of little Pieces of the Marchasite of some Mineral, this is a Sign that there is some Metallick Mine near the Place; for these Metallick Bits being wash doff, and convey'd by the Current of the Water that slows usually from the Bostom of some Hill; so that it runs back again towards the Fountain Head, insomuch that if you pursue these small Pieces of Marchasite, they will bring you to the Place

where the Mine is.

When the Aspect or Figure of a Mountain is rough and wild, the Earth is barren, naked, and without any Kind of Plants, or that only some particular Kinds are produced, which are almost wither'd and dry; these are Signs that there are Mines in this Mountain, because the great Barrenness of the Surface was occasion'd by nothing else but the Mineral Vapours, which consume the Roots of the Plants; tho' it does not always happen that Mineral Places are barren, there being very many that are cover'd with great Variety of Herbs. When we see a very clear Water flow from a Mountain that has a Mineral Taste, it is a Sign that the Place abounds with some Kind of Metal or Mineral; for those Sort of Places are usually supply'd with a great deal of Water, which give great Disturbance to the Workmen, it being necessary to drain off the Water before you can search for the Metal.

When we are very certain, by several Signs or Observations, that any Hill or Mountain contains in it some Mine of Metal, we begin to sink or dig a Pit at the lower Part or Foot of the Hill, in order as the Miners call it to carry the Level, whereby the Waters may run off of their own accord, and without the Assistance of Engines, and thereby they may be able to come at the Deep, where the largest and richest Part of the Metal lies. We must take Notice, that

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the Metallick Matter being as yet Flint in the Mine, divides it self into several Veins or Channels, that represent the several Branches of Trees, or the Arms of a River. Metals differ from other Minerals in being more malleable, whereof there are seven, to wit, Gold, Silver, Iron, Tin, Copper, Lead and Quicksilver; the last is not malleable, but will amalgamate with any of the others, and therefore is by some call'd a Half Metal, tho

others believe it to be the Seed of all Metals.

The Astrologers and Aichymists joyn in their Opinions herein, and affirm this as an uncontestable Truth, that there is a great Correspondence between the seven Metals and the seven Planets in their Influences, which flow the one from the other, and serve reciprocally for their Nutrition. And tho' this Opinion is without any Foundation, it has nevertheless many Followers, notwithstanding their finest Reasonings are but gratis dicta; for excepting the Sun and Moon, there is not the least Shadow of a Probability, how any of the rest should communicate any Influence to any Thing that grows upon this terraqueous Globe, e-Specially Subterraneous Bodies, where neither the Sun nor Moon Seems to have

A great many Physicians and Apothecaries think it sufficient to answer the any Dominion. Ends of their Profession, that they know the most common Druggs in Use, without giving themselves any further Trouble: But nothing is a greater Obstruction to the Progress and Advancement of Medicine than such a lazy Notion, which gives a Check to all Enquiries into the Secrets of Nature, and prevents the Discovery of an infinite Number of excellent Medicines that are unknown to us. We see that every Age has brought to light some new Druggs, and we had never known the chief Part of the best Medicines in Use amongst us at this Day, if the Chymists had not brought them out of the Fire, from such Metals and Minerals as the Ancients believed not only useless in Physick, but pernicious to Health. How shou'd we have met with the Bark, Ipecacuana, &c. which produce such extraordinary Effects, if the Botanists had not carried their Enquiries into the New World? And the Materia Medica had never been so copious as it is now, if those who have made so many valuable Discoveries had contented themselves with such Druggs only as served their Predecessors. We likewife see that such Physicians as practise Physick with the most Success, are such as have apply'd themselves most to the Knowledge of Druggs; as we have an eminent Instance in Monsieur Fagon, first Physician to the French King; and some of our own Nation, who are, and have been, the greatest Ornaments to the Profession of Physick, as well as the Study of Botany, as Dr. Morison, Dr. Grew, Dr. Sloane, Dr. Woodward, Mr. Petiver, and others: Therefore all those who apply themselves to the Composition of Medicine, ought seriously to enquire into the Knowledge of Druggs, and to penetrate into their secres

cret Virtues; it being certain there is not one of them that has not in it some specifick Quality for the Cure of Diseases. 'Tis pity there are sew Persons whose Leisure and Fortune will give 'em an Opportunity of applying all their Time to this Business; but I am perswaded that any Physician or Apothecary that wou'd use a little Industry this Way might, in the Course of his Life, discover the particular Virtues of one Drugg; and this wou'd, in Time, enrich the Practice of Physick; with a great many more Simple Medicines that are surer, safer, and more efficacious then those we use at this Day.

A

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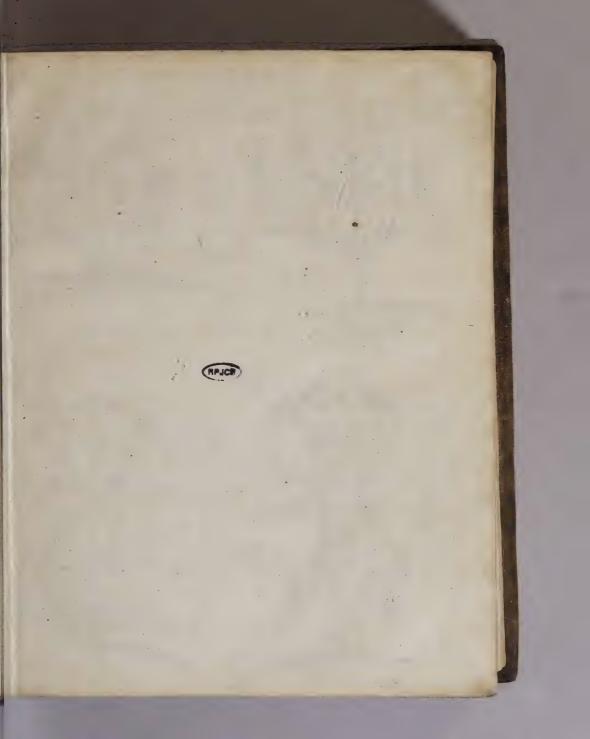
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POMET's General HISTORY

DRUGGS:

With what is further observ'd by Monsieur Lemery, Turnefort, &c.

BOOK I.

CHAP. I.

Of SEEDS.

I. Of Wormseed.

HE Name of this Seed bespeaks its Virtues, which are to kill and destroy all kinds of Worms generated in Human Bodies; and particularly those in Infants or young Children. It is likewise called Santoline, or Xantoline, Semen Sanctum, the Holy Seed, Semen Santonicum, &c. It is a small Seed, which the Persians trade in by their Caravans from Aleppo, Alexandria, and Smirna, and which is afterwards transported to England, Holland, and France. The Caravan is properly a Number of Men, in the nature of a Convoy, to guard the Camels and other Cattle, which are loaded with all forts of Merchandize, that are brought from Persia once or twice a Year for the Levant-Trade.

This Plant which bears the Wormseed is compos'd of fuch small Leaves, that it is dif-

have Baskets or Sieves on purpole, which they use to reduce the Leaves to Powder. Some Authors affirm this Wormseed to be of the same Species with that fort of Wormwood which is called Santonique, because it grows in Xaintonge: But this is not worth disputing about, fince what is generally fold, we know grows in Persia, and on the Borders of Muscovy, as Letters which I have received upon several occasions assure me, and as you may be satisfied from Mr. Tavernier, in the second Volume of his Travels, page 384, in these Words;

As to this Wormseed or Worm-powder, we cannot reconcile it to that of other Seeds: Tis an Herb that grows low, and near the Wall, and yet is worse as it ripens; for then the Wind shakes the greatest part of the Seed amongst the Leaves, which is there lost, and that is the reason it is so dear.

It grows as the Wormfeed in the Province of Kerman, which is nothing nigh fo good as that of Boutan, neither will it yield the Price to ficult to separate them from the Seed; for the Merchant, like what comes from that this reason, those of the Kingdom of Bouran Country. This Seed is not only used for

killing of Worms in human Bodies, but the Persians, and all the People towards the North, likewise the English and Dusch, use it like Caraway-seeds, for Confects and Sugar-plums.

To diftinguish Wermfeed aright, so as to know what is true, you ought to chuse that which is well-fed or plump, of a greenish Cast, and well tafted, and take care that it be very clean, and have nothing flicking and clinging to the Seed; for that is very deceitful, and will increase the Price confiderably. You will increase the Price confiderably. must take care it be not too green, and that Southernwood-feed be not impos'd upon you for this, tho' they are easily to be distinguish'd; for the Wormfeed is fomething larger, longer, and of a darker green, than the Southernwoodfeed, which is lighter, yellower, refembling more a fine clean-dreft Chaff, than a Seed, and especially Wormseed, which is bitterer and more aromatick.

Chuse your Wormseed always as Lomery. new and fresh as you can, clean and round, of the strongest Taste and most fragrant Smell: It contains a great deal of Oyl with volatile and effential Salt in it : It is very proper for the Destruction of Worms, excites the Courses of Women, supprefics Vapours, strengthens the Stomach, causes a good Digestion, and adds a lively Colour and Complexion to the Face. The Dose, from half a Scruple to a Dram, in Powder, to be taken in the Morning fasting, or in an Infufion in Wine, or made into Confects, to be eat with roafted Apples Evening and Morning. The chymical Oil is excellent to anoint the Stomach or Belly with for the same purposes. A compound Powder may be made thus : Take Wormfeed two Drams ; Powder of Coraline one Ounce ; Æthiops Mineral half an Ounce: Mix them: Dose, from half a Dram to a Dram, fasting.

2. Of the Chouan in French, or Carmine-Seed.

Pomer. This is a little light Seed, of a yellowish green Colour, the Taste something falt and biting, and much resembling the Wampeed, except that it is much larger and I gheer.

This Plant grow low, and carries its Seed in Intele Bunches or Clusters on its Top, Inde

different from the Wormfeed.

It would be almost impossible to get an exact Knowledge of the manner of Growth of this Plant which bears the Choisan: All that I know of it is from the Relation of several Persons, and particularly Monsieur de Guillerague, Ambassador in Turky for the French King, who when he return'd to Paris, brought a good Quantity along with him.

If you would know how to chuse the best Seed, you must take that which is greenish, the largest, and best-clean'd or drest, and least fill'd with Specks, like Holes in rotten Wood:

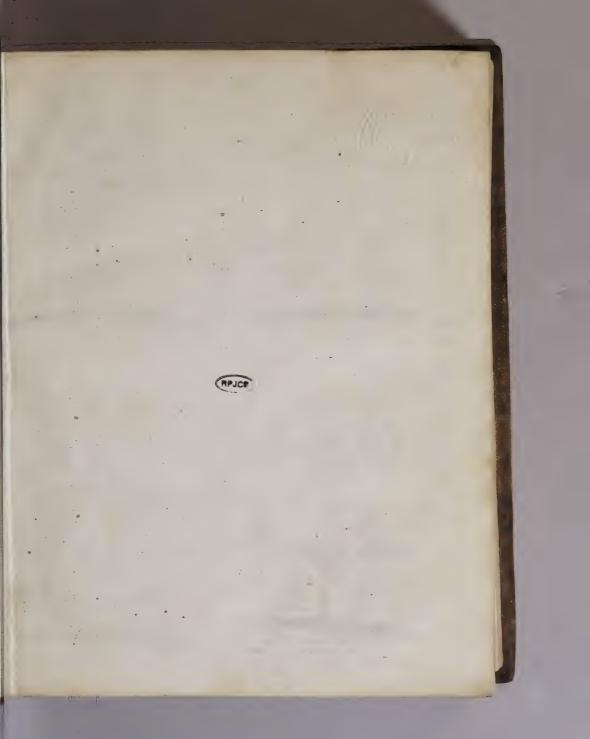
It is of no other use, that I know of, in France, but to make Carmine, and for the Feather-Men or Upholsterers, who dye with it, but at present mind it very little.

This Author agrees with the former in the Description and Use of this Exorick; which he says is like Wormseed, but in Taste a little salt and pungent; it grows upon a Shrub-Plant, plum'd on the Tops, like a Nosegay; it is brought from the Levant, and used for Carmine.

3. Of Macedonian-Parsley.

Macedonian - Parfley is a Plant which refembles, in some measure, our Garden-Parfley; but this Seed is a great deal less, much longer and sharper pointed, and grows in Clusters like Fennel-Seed. This Plant receives its Name from the Kingdom of Macedon, where it grows naturally, and from whence the Seed is transported, which is almost the only part of this Plant that is used in Physick.

Make choice of the newest Seed, which is clean, well-fed, longish, and of a brownish green Colour ; let it be well-rafted and aromarick, which are the chief Diffinctions of the goodness of Macedonian-Parsley; because there are some who very improperly use our common Parsley-Seed, and others again a fort of black Seed from the large Smallage, which the Gardiners falfly call Macedonian-Parsley. Andromachus, Physician to Nero, General of the Roman Legions in the time of the War betwixt the Romans and Hannibal, invented a Treacle. which we now call Venice-Treacle, in which he put this Seed, by the Name of Macedonian-Parfley, as it was a powerful Alexipharmick, or Refister of Poylon and Pestilence.





an Ounce in a Glass of Wine, or other Liquor proper to the Disease.

Says it is of the same species of Lemery, Parsley with ours; but the Leaves are much larger, and a little more indented; the Seed abundantly smaller, longer, sharper-pointed, and more aromatick. This Plant grows in Macedon, from whence the

dried Seed is brought hither.

The choice of it ought to be the same as before directed. It contains a great deal of exalted Oil and volatile Salt; it is aperitive, excites to Urine, provokes the Monthly Courses, refists Poison, and expells Wind; it is Lithontriptick, or a powerful Breaker of the Stone in the Kidneys; and apply'd in the Form of a Cataplasm, eases Pain, and abates the raging of the Gout, especially from a cold Cause. This Seed may be us'd either in Powder, Decoction, Tincture, chymical or expressed Oil, and in the distill'd Water of it, which is opening, cleanfing, diuretick, and fudorifick, like Treacle-Water, and therefore is us'd in the Composition of the great Treacle of Andromachus.

4. Of Seseli of Marseilles.

THIS Sefeli or Sifeleos takes its Pomet. Denomination from Marfeilles, which is its native Climate, tho' it flourishes more in several other Parts of Provence and Languedoc. It is a Plant which passes for a kind of Fennel, and is by many Authors call'd Fæniculum tortuosum, or Crooked Fennel; but has less Leaves than the common Fennel, and those not so long, nor the Stalk so strait or high, but on the contrary more naked, and the Branches less regular, spreading themselves larger on the sides near the bottom. We use the Seed, which grows by Clusters on the Tops, after the same manner as Annifeed: When they come to Maturity, they look very much like the wild Fennel. This is of a less Size, longer, heavier, clearer. more green, of a good Smell, and of an acrid aromatick Tafte.

There are several other forts of Sefeli; as that of Candy, Peloponnesus, of the Morea, Ethiopia, &c. but as it is only the Seed of the Sefeli of Marseilles that is in use, I shall not mention is in use, which ought to be chose fresh or

It may be taken early in the Morning, half that treat of them. Some affign the fame Virtues to this Sefeli of Marfeilles, as was given to the Parfley of Macedon; and some Botanists call it the Siler Montanum, or Seseli of the Mountains.

> The Latin Authors call it by these Names, Sefeli Massiliense, or Seseli of Lemery. Massilia; Seseli Massiliense Fæniculi folio Dioscorides censetur, which was the Seseli, as Dioscerides thought, with the Fennel-Leaf; C. B. Faniculum tortuofum, according to Baubin and Turnefort; Sefeli Maffin de since culi crassiore, Ad Lobel, or the Massilia Seseli with the thicker Fennel-Leaf; Fonica am Po-

træum, or Rock-Fennel.

After he has given the same Description of it as Pomet, he fays, it grows in fandy places in the hot Countries, as in Languedoc, Provence, and about Marseilles: The Seed is used in Phyfick, and brought to us dry; it ought to be chose moderately large, fresh, and of a grateful Smell; then it affords a great deal of essential Oil and volatile Salt, is hot and dry, incides, opens, discusses; it is cephalick, neurotick, pectoral, and nephritick; good against Epilepsies, Apoplexies, Megrims, Verngo's Lethargies, Cramps, Palfies, Convulsions, Coughs, Colds, Catarrhs, Obstructions of the lungs, Wheelings, Shortness of Breath, Drophes, Cholick, Crudities in the Stomach, Wind, Obstruction of the Terms, Pain and Stoppages in the Reins and Bladder; and may be taken in Powder from a Dram to two, or infus'd in Wine, or boil'd in Wine, Ale, or Water; likewise a Tincture may be drawn from the same in Spirits of Wine.

5. Of Ameos, Bishop's-Weed, or the Ethiopian-Cummin

HE French call it L'Ammi, and fometimes D'Ameos. It is a Fine. Plant which has Leaves like Dill, and bears a Stem pretty high, with many Branche es, which terminate in Tassels adorn'd with white Flowers, after which comes a little roundish Seed, small, and almost like your Sand-Seed, call'd so from the Plant bearing that Name.

The Seed is the only Part of the Plant that the others, but refer you to the Authors new, greenish, well-fed, of a little bitterish

General History of DRUGGS.

Tafte, and aromatick Smell: That which comes from Alexandria or Crete, ought to be efteen d before that which is cultivated in feveral Gardens in France, which is not to be diffinguished in Taft from Origanum and Thyme; but it is observable, that of Alexandria and Crete is abundantly better upon all Occasions. The fame Virtues are attributed to this Seed with those aforementioned.

It is call'd Semen Ammeos, or Lemery. Ammi ab Arena; the Name being given to this Plant, because the Seed is very like to grains of Sand: It affords a great deal of essential Oil, and volatile Salt, and is Attenuating, Cutting, Aperitive, Hysterick, Carminative, Cephalick, resists Poyson, and is one of the four lessenth to Seeds, it expells Wind, is good against the Cholick and Pains of the Womb, and provokes the Menses; it is used in Powder from half a Dram to a Dram, in a Decoction with Wine or Water, or in a Tincture extracted with Spirit of Wine, from a Dram to two Drams.

6. Of Thlaspi or Treacle-Mustard.

Pomet.

This Plant is about a Foot high, and the Leaves something of a deep green Colour, the length of the little Finger, larger towards the Bottom, and ending by degrees in a point Spiralways; the Stem is charg'd with a great many Branches, bearing white Flowers, after which grow flat Pods, resembling those of the Lentil, which contain two Seeds in each, of a yellow Colour, tending to Red, which in course of Time change to a dark Red, and the older they are, the darker they grow. This Seed is oblong, and a little picked at the Ends.

You ought to chuse that Seed which is clean and fresh, of the reddish cast, sharp and biting; and to know that it grows in the hot Countries, such as Languedoc and Provence; but there is another sort of Treacle-Mustard, whose Stem, Leaves and Pods are much less, as well as the Seed: This is altogether yellow and smaller, comes up very near to it in Tast, but is abundantly short of it in Virtue, for which reason it ought to be Rejected. I shall pass by other sorts of the Thiaspi which are out of use.

This is particularly recommended for the Cure of the Sciatica Gout, diffolying of the Stone, and Grumous Blood; given in Powder from half a Scruple to two, in the Morning fasting.

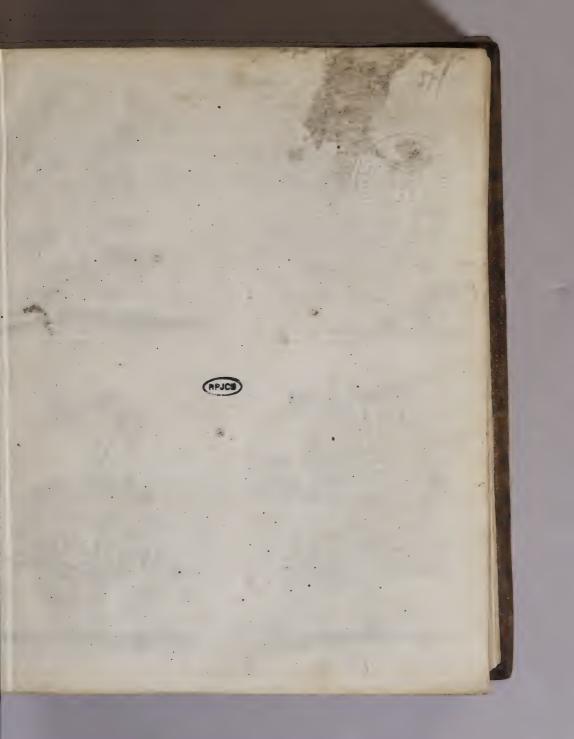
The Root is pretty large and fibrous, woody, white, and a little Lemery. acrid or biting. This Plant grows in uncultivated, wild, stony or sandy Places, much exposs d to the Sun; likewise among Corn, on the tops of Houses, and against the Walls, it affords a great deal of volatile Salt, and essential Oil. We bring the dried Seed from Languedoc and Provence, where it grows better than in the more temperate Climates.

We chuse the fairest Seed, which is most biting and piquant to the Tast, like Mustard. It is used in the Composition of several Medicines, and is Incisive, Attenuating, Detersive, Aperitive, proper to provoke Urine, and the Terms, to hasten the Birth, and bring away the After-birth, and is very serviceable to break inward Apostems.

7. Of Daucus, or Wild-Carrot of Creet or Candia.

THis Daucus is a Plant fo very like a Parsnip, that any Body Pomer. wou'd take it for one of that Species; it is a foot and a half high, which bears on its Top several Bunches or Clusters of white Flowers, which when they come to Seed, are of a pale Green, hairy and whitish, something long like Cummin-Seed, but not altogether so long or big, or of so strong a Smell; but on the contrary, their Smell and Tast are both agreeable and aromatick, for which reason you may be able to bear them some time in your Mouth. This Seed is commonly mix'd with a fmall dust, which ought to be separated from it. Sometimes it is brought from Germany and the Alps, but this is not fo good or useful as that which comes from Crete, which is only to be chose.

It is fingular for the Stone, and those who are subject to Wind-Cholicks: This is ranged amongst those Medicines which are called Lithontripticks, and passes for a powerful Carminative, given in Rauss-Water to a Scruple, or in White-Wine, against the





Stone or Gravel early in the Morning; it of the Shops, are those brought from Promay be likewise administred in Wind-Cholicks at Bed-time in Annifeed, Fennel, or Rue-Water, and some add to it a scruple of Sak of Wormwood.

The Leaves of this Plant are something like those of Fennel, the Lemery. Root long, the thickness of a Finger, furnish'd with Fibres, and tasts like a Parsnip: It grows in stony and mountainous Places; the Seed is brought over dry from Candia, and other hot Countries, and that which is new, clean, well-tafted, and odoriferous, is the best; it affords a great deal of

Oil, and volatile Salt.

Both the Wild-Carrot and that of Crete, have one and the same Virtues; but that of Crete is much the Strongest, and more Efficacious. They expel Wind, and are good against pains of the Womb and Bowels, vehement Cholicks, Vapours and Hysterick Fits; as also against old Coughs, Cold, Wheezings, Afthma's, Difury, and all forts of obstructions of Urine, as Sand, Gravel, Stone, and tartarous Mucilage in the Reins, Ureters, and Bladder; they are us'd in Powder, from a Scruple to a Dram or more, in Decoctions, in Tinctures with the Spirits. Dose from a Dram to three or four. An oily Tincture is made from them with Oil of Turpentine, against Cramps, Convulsions, Palfies, Pains and Aches from Cold.

8. Of Carui, or Caraways.

CArui, which the Latins call Ca-Pomet. rum, Careum, Caros, and the Greeks Caron, is a Plant that approaches abundantly nearest to the Wild-Parsnip; the Leaves are large, indented and divided into many small Parts, among which arise several square Stalks about a Foot high, on the Tops of which grow Bunches, cover'd at first with white Flowers, which are afterwards turn'd into Seed, much like that of Garden-Parsley, but that this is of a darker Colour, flatter, and of a more biting and pi-·quant Taft.

This Plant grows generally in most Gardens, but as the hot Countries are most agreeable and productive of Aromatick Plants, the Caraways that the People of Paris buy out

vence and Languedoc. We ought to chuse such Seed as comes from the best Soil, well fed, fresh, greenish, of a warm acrid Taft, and aromatick Smell, and that you may hold it in your Mouth agreeably; for which it is efteem'd proper to make the Breath sweet, and very good to promote Digestion, to allay or expel Wind, to Arengthen the Stomach, and excite or provoke Urine. The Germans have fuch a regard for it, that they always put it into their Pye-Crust, mix it in their Bread, and in a great measure in all their Sauces. There are several who use the Leaves as a Pot-Herb.

The Root is long, fleshy, pretty Lemery. thick, white, fometimes yellowish,

but rarely of a Parsnip Tast. This Plant grows in the fattest Land in the Gardens, but prospers much the best in warm Soils, ; therefore contains in it a good deal of volatile Salt and Oil: It is Incifive, Aperitive and Carminative, moderately binding, comforts the Stomach, helps Digestion, stops Vomiting, and operates much like Annifeed. Caraways are good against all cold disaffections of Stomach, Bowels or Head, Falling-sickness, and the most inveterate Cholicks, strengthens the Womb, and quickens the Eye-fight. They are used in Confests to break Wind, &c. in Powder to provoke Urine, and in the chymical Oil to all the Intentions aforesaid; besides which they are very serviceable to bring away both Birth and After-Birth. Dole from 12 to 16 Drops of the chymical Oil,

9. Of Saxifrage.

S'Axifrage is a Plant so like Thyme, Pomet. that it is difficult to distinguish it.

This grows plentifully in Dauphiny, Provence and Languedoc, so much among Stones and Rocks, that it has obtain'd the Name of Saxifrage, and by a great many that of Break-Stone.

You must chuse the newest Seed you can get, which is of a warm piquant Taft, and an agreeable Smell; the virtue of breaking the Stone, is attributed to it, given in Powder in a Morning early in a Glass of the distill'd Water from the Plant, or any other Diuretick Water, Dose half a Dram.

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There are a great many other kinds of Saxi- deal us'd to refresh and envigorate Horses frage, which feveral Authors take notice of; but as this Seed is that which is commonly in use among us, and which is generally fold in the Shops, I shall speak no further concerning the rest, which are treated of in Books at large, among which some will needs have it, that all Plants which grow among Stones and Rocks, are to be call'd Saxifrages.

Saxifrage, or in Latin Saxifraga, Lemery. is a Plant whose Leaves are almost round, indented on the sides, being fomething like Ground-Ivy, but a little thicker and whiter, and on the hinder-part a little longer and smaller; it is rais'd upon fmall Stalks of about a Foot high, bearing on their Tops little Flowers of five Leaves, dispos'd like a Rose, of a white colour. When the Flower is off, it produces a Fruit almost round, which contains in two Partitionsa very Small fort of Seed. The Root has abundance of Fibres, the Tops are furrounded with little Tubercles, about the fize of Coriander-Seed, or something bigger, of a colour partly red and purple, and partly white, with a bitterish Taft; these Tubercles are commonly call'd the Saxifrage-Seed. This Plant grows in Places where Herbs are not propagated, as upon the Mountains, and in the Valleys; it flourishes in the Month of May, and is a little viscous. The Leaves are larger, and the Stalks grow higher in some Places than others, but they are generally small, allowing a good deal of effential Oil and Salt.

It is very Aperitive, proper in Stone and Gravel, and to open Obstructions, to provoke Urine and Women's Courses, cut the Tartarous Mucilage, and expel it, and is chiefly us'd in Powder from half a Dram to two, or in an Infusion with White or Rhe-

nish Wine.

To. Of Cummin.

Pomet. Cummin is the Seed of a Plant which is like Fennel, and grows plentifully in the Isle of Malta, where they fow it as they do Corn there. In the choice of it, take that which is new, well fed, greenish, of a strong disagreeable Smell; tome use this Seed for Dropsical Timpanies, because it is Carminative: There is a great

Oxen, and other domestick Cattle: They make an Oil of it by Expression, as of Annifeed, which is very good for the Rheumatism, but it yields but little in quantity.

There are many Persons make use of Cummin-Seed to replenish their Dove-Houses, because Pigeons are very dainty in their feed, but it is not us'd just as we sell it in the Shops; but when it is incorporated with a little Salt and Earth, such as the Pigeons are apt to pick up in the Fields, or else loam Earth moisten'd with Urine, and the like.

Cummin, Cuminum or Cyminum, is a fort of Caraway, which bears a Lemery. Stem about a Foot high, divided into

several Branches; the Leaves are cut small like those of Fennel, but a great deal less, rang'd by Pairs lengthways on the fides. The Flowers grow in Umbrello's on the Tops of the thick Branches of a white colour; after them come the Seed join'd by two and two, oblong and furrow'd as the Fennel, but less

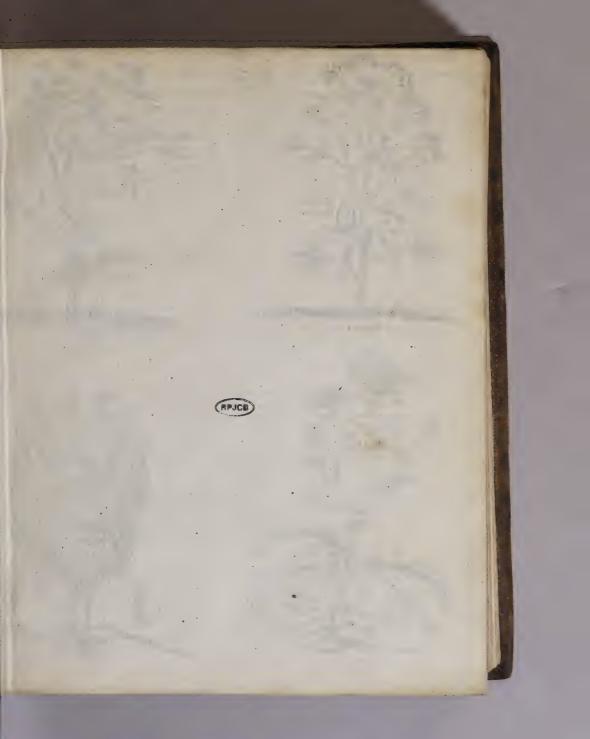
and pointed or sharp at both Ends.

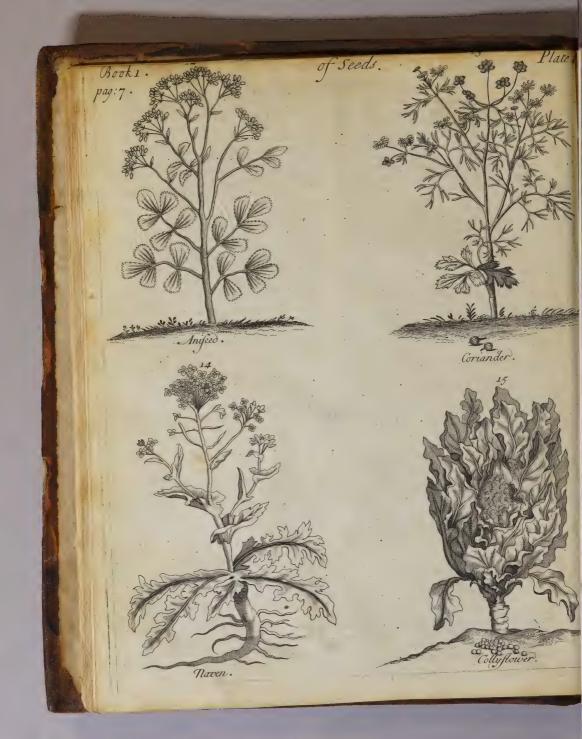
The Root is small and longish, and perishes when the Seed is gone: They call this Seed in Malta where it is propagated, Annis-Acre, or Cummin-Acre, sharp Anniseed, or sharp Cumminseed. To distinguish it from the same Anniseed that is cultivated there, and call'd by the Name of sweet Annise, or sweet Cummin by the Maltois; which Circumstance makes several Botanists equivocate, who believe this to be the same fort of Cummin with the sweet Seed. This contains a. great deal of volatile Salt, and effential Oil; it is Digeftive, Diffolving, Attenuating, Carminative, expells Wind, cures the Cholick, eases Pain, is profitable against Diseases of the Nerves: The chymical Oil is good against all obstructions of Urine, Stone, Gravel, &c.

II. Of Fennel.

His is the Seed of a Plant which Pomer. is known throughout all the

World, and therefore needs no Description: I shall content my self to say, that the Fennel which we now fell, is brought from Languedoc about Nismes, where that Plant is cultivated with great care, by reason of the great





great quantity of Fennel which is carry'd into are cut as it were into long Threads, of a France, and chiefly to Paris.

Make choice of the newest Seed, longish, of a green Cast, sweet Tast, luscious and agreeable, and which is freest from Mixture.

This is of no great use in Physick, only to expel Wind, for which it may be us'd instead of Anniseed; but it is much more us'd by the Confectioners, who cover the Seeds with Sugar. They take the clusters of the green Fennel, which when cover'd with Sugar, they fell to make the Breath sweet, for the green is reckon'd to be of the greatest Virtue. The Apothecaries make the distill'd Water from the green Fennel fresh gather'd, which is esteem'd excellent for taking away Inflamations of the Eyes; and they make after the same manner a white Oil of a strong aromatick Smell; but if there is but a small quantity, it is not worth the trouble to make it. The drynels of Fennel makes it fo, that it is very troublesom to make a green Oil by Expression, as is done of Anniseed. There are some who lay this Seed amongst their Olives, to give the Oil that comes from thence a fine Tast.

There is yet another fort of Fennel which is wild, and which grows every where in the Fields, and upon Walls, without any Sowing; but this is almost round, less, flatter, more acrid in Tast, and not so green as that we have been speaking off; but it is scarce of any use by reason of its sharp pungent Tast, because the other Fennel is very common, especially that cultivated in Languedoc; but at fuch times as we have not that from Italy, which is call'd the Florence Fennel, the wild Fennel may be a little in use.

There is another kind of Fennel which bears the Name of Sea-Fennel, which the Latins call Crithmum, or Creta Marina, which we make Vinegar off to fell in Winter with Girkins or little Cucumbers, which are made after the same way.

Faniculum or Fennel, is a Plant Lemery. of which there are various Sorts; I shall only mention two which are us'd in Physick. The first is call'd Faniculum vulgare minus, acriore & nigriore semine; or common lesser Fennel, with the sharp black Seed. It shoots forth a Stalk of five or fix Foot high, hollow, of a brownish green Colour, fill'd with a spongy Pith. The Leaves fragrant and aromatick Tast and Smell,

dark Green, an agreeable Smell, a sweet and aromatick Tast. On the Tops are large Clusters or Bunches, yellow and fragrant, the Flower is compos'd of five Leaves, in the extremity terminating like the Cup of the Rose. After the Flower is gone, the Cup bears in it two oblong Seeds, swallow-tail'd, hollow on the Back, flat on the other fide. blackish, and of a sharp Tast. The Root is thick as a Finger or Thumb, long, strair, white, odoriferous, and of a sweet aromatick Relish.

The Second kind is call'd Faniculum dulce, majore & albo semine; sweet Fennel, with the larger white Seed. It differs from the former, in that the Stalk is usually much less, the Leaves not so big, and the Seed thicker, white, fweet, and less acrid. They cultivate both forts in dry Sandy places, chiefly from the nature of their Seeds: This of the latter kind, which is call'd sweet Fennel, is more us'd in Physick, and is brought dry from Languedoc, where it is husbanded with great care: It is the same fort as that which is sometimes brought from Italy, which is call'd Florence Fennel. Your choice of it ought to be the same as before directed, it yields largely effential Oil and volatil Salt; the Leaves, Branches and Root afford much Flegm, Oil, and fix'd Salt. The Leaves are good for Diseases of the Eyes, which they cleanse and strengthen; they clear the Sight, encrease Milk in Nurses, sweeten the Acrimony in the Guts, and fortify the Stomach, The Root is Aperitive, and us'd to purify the Blood, as one of the five opening Roots. The Seed is Carminative, proper to expel Wind, to affift Digestion, ease old Coughs, open Obstructions of the Lungs, and cause free Breathing.

12. Of Anniseed.

Annifeed comes from a Plant that Pomes. we know, as well as Fennel; but that which is fold in the Shops, comes from several different Places, as Malta, Alicant, &c. but that is far better which comes from the Eastern Countries, as China, &c. because it is abundantly sweeter, larger, and of a more

France. Make choice of Annifeed that is of the same Years growth, large, clean, of a good Smell, and piquant Taffe; and beware of that which is any-thing bitterish, which you can't distinguish but by your Taste, especially that of China.

The Use of the Green Anniseed is too common to admit of a long Discourse; and the more, because there are few Persons who do not understand that it is proper to expel and allay Wind, and that it is a Corrector of Scammony. The Confectioners make use of great Quantities of the dried Seed, which they cover with Sugar for Confects.

They draw from this Seed by Distillation, a Water, and a white Oil, which upon the leaft Cold congeals, and liquifies or flows again upon the smallest Heat; this has a strong penetrating Scent, and abounds with a great many Virtues, but it is too prevalent to use but with Moderation; the Apothecaries and Perfumers use it frequently in their Pomatums, instead of the Seed, as well to maintain the Colour, as to fave Charges; for half an Ounce of the Oil will do more Service every way than two

Pound of the Seed.

The Perfumers keep it by them to scent their Past, and to mix among a variety of other Aromaticks, which is what we properly call a Medley. Every-body makes use of this Oil indifferently for the Seed, to make their Annifeed-Waters, and the like. This Oil has a great many Virtues, and is an excellent Remedy to ease or allay the Gripes, especially in Infants, by rubbing the Navel therewith, or putting a small Drop or two among their Food. In a Word, it has all the same Virtues, and may be us'd to the same Intention, with the Seed. There is likewise a green Oil drawn by Expression, of a strong Smell, and has the fame Virtues with the white, with this difference, that it is not fo powerful; but you may draw a great deal more in Quantity, according to Monf. Charras, to whom we are indebted for this Invention, and who describes the making of it thus, in his Pharmacopeia, or Royal Dispensatory.

Put Green Anniseeds bruised into Rain-Water, distill'd from Anniseeds in a Glass-Cucurbit, which cover with its Moor-Head, and lute, digest in Horse-Dung, or a gentle Heat

and less Green than that which is produc'd in in Sand, for 15 Days or 3 Weeks, so will they putrefy, by means of which Putrefaction, the oily Parts will be the easier, and more in quantity, separated, and you will have a confiderable quantity of Oil more this way, than any other. After this manner, you may distil the Seeds of Fennel, Dill, Caraways, Parsley, Smallage, Cummin, Bishops-Weed, &c.

Anisum, in English Annisced, is a very common Plant in our Gardens; Lemery. the Stem or Stalk is about 3 Foot high, round, hairy, hollow, and full of Branches; the Leaves are long, cut deep, whitish, odoriferous, and fomething like those of Parfley; the Tops bear large Bunches, supplied with little white Flowers, much refembling those of Burnet Saxifrage: It has a little Seed, of a greenish grey Colour, scented, and sweet in Taste, with a pretty agreeable Acrimony. The Root is small, and this Plant is cultivated in fat Land: The Seed is only used in Phyfick: The largest and best is brought from Malta and Alicant; it is much browner than that of France, because it is a great deal drier.

This Seed yields a great deal of effential Oil and volatile Salt: It is cordial, stomachick, pectoral, carminative, digeftive, produces Milk in Nurses, and gives Ease in the Colick; it provokes Urine, warms the Breaft, opens Obstructions of the Lungs, is prevalent against Coughs, Hoarseness, and Shortness of Breath. This Seed is us'd to make common Aqua Vitæ with, Irish Usquebaugh, Daffy's Elixir Salutis, and in the Laxative Electuary, or Confection with Sugar and Amomum, wherein the Seeds are steep'd in Water, in which Scammony is diffolv'd, and fometimes in an Infusion of Crocus Metallorum. One Pound of Annifeed will yield about an Ounce of chymical Oil by Distillation, two or three Drops of which are specifical in windy cases, Gripes in Infants, to take away Pains and Noise in the Ears; outwardly the Stomach or Navel may be anointed therewith, and it may be dropt into the Ears, mix'd with a little Oil of bitter Almonds.

Le Febur is of Opinion, these Seeds ought to be distill'd being green, without any previous Digestion or Putrefaction, because this kind of Seed (saith he) abounds much with volatile Salt, of a middle nature, fo that the Water will not attract it to its felf by length of Digeftion; which will happen otherwise, if the Distillation be begun immediately after the Seed and Water are mix'd together. 'Tis true, faith he, that if Digestion precedes, the Water will be all spirituous, and of much more Efficacy than without, but without Digeftion the Seed will yield much more effential Oil.

12. Of Coriander.

Oriander is the Seed of a Plant which is very common amongst us, and which grows plentifully about Paris, especially at Auberville, from whence all that we fell in the Shops is brought to us.

We ought to chuse such Seed as is new or fresh, fair, dry, well-fed, the largest and cleanest we can get: It is but little us'd in Physick, but the Brewers employ it confiderably all over Holland, and in some Parts of England, to give their strong Beer a good Relish. The Confectioners, after they have prewith Sugar, which they call Coriander-Confects.

There are three Kinds of Corian-Lemery. der, the greater, the less, and the wild; but the Seed of the first is only used, being brought to us out of the Streights; the first, which is call'd Coriandrum majus, or Coriandrum vulgare, bears a Stalk about a Foot and a half or two Foot high, round, slender, and full of Pith; the Leaves grow low, like those of Parsley, but those which put forth near the Top of the Stalk, are much less, and abundantly more cut in; the Flowers are small, disposed in Bunches or Clusters on the Tops of the Branches, of a whirish Flesh-colour, each Flower is compos'd of five Leaves; when the Flower drops off, the Cups bear a Fruit made up of two round hollow Seeds: The Root is small, strait, single, furnish'd with Fibres; and the whole Plant (except the Seed) has a very difagreeable Smell, like that of a Bug.

The second Kind of Coriander is call'd the Coriandrum inodorum, or Coriandrum minus odorum, the less-smelling Coriander. This differs from the other Sort mention'd before, by reason it is much less, and its Branches more crooked. The Smell is nothing near fo great, and the Fruit are compos'd each of two Balls, Navet, scarcely differs any thing which in some measure look like small Testi- from the Radish, but by a certain Bearing cles or Stones.

Both this and the former Kind are propagated in our Gardens, but we only preserve the Seed for Physical Uses, which has the Virtue of the Plant, and is us'd in Confects, pleasant Liquors, and stout Beer. The greatest Part of the Coriander-Seed in use, comes from Auberville and other Places about Paris: It produces a good deal of effential Oil and Salt, corroborates the Stomach, helps Digestion, makes the Breath sweet, corrects Wind and flatulent Vapours, closes the Mouth of the Stomach, and relifts Infection.

14. Of Navew, Bunias, or Napus.

THis Bunias or Navew is the Seed of a Kind of Wild-Radish, which Pomet. grows frequently amongst Corn. The Wild-Navew is almost entirely compos'd of Branches, and the Flowers are yellow, every one of which are intermix'd with white: the Leaves are all very near alike, larger or par'd the Seeds with Vinegar, cover 'em over smaller, according to the Fertility or Barrennels of the Soil that produces them. They likewise produce their Seed alike, in Husks of an Inch or an Inch and an half long, more or less so, according to the fize of the Seed which they bear. As for this of the Bunias or Sweet-Navew, the Seeds of which we fell, they are twice as large as the other Sort, because the Seed is bigger. This Seed is round, of a purplish Colour, acrid and biting to the Taft, and in all things comes nearest to the Domestick Navew, excepting only its Alexipharmick Virtue, which is peculiar to it. The Species of this Plant, which grows plentifully almost every-where, has a yellow Seed, which is less by half than the Bunias or Sweet Navew, yet may be taken for it. The greatest Use of this Seed is for Treacle, tho' you can scarce engage your Druggist to afford you a Quantity of it. You must desire your Merchant to deal fincerely by you, and take care, left instead of the true Seed, he do not impose upon you the false, the difference betwixt which is not so easily to be known, because the Tast of the Wild-Navew is more remarkable than that of the Sweet. Some Persons assure me, that the true Wild-Navew is the Briony.

The Napus, Bunias, or in French,

which

guish it by, and by the Figure of the Root, which all the World knows. There are two Kinds of it, one cultivated, and the other wild, the first is call'd Napus by F. B. and Ray; Napus fativa by Turnefort; and Bunias or Napus by Ad. Lob. Ger. The Stalk rifes about a Foot and half, or two Foot high, and fpreads it self into Branches: The Leaves are oblong, deeply cut, rough and green: The Flowers are compos'd of four yellow Leaves, form'd like a Cross, which are succeeded by a long Pod of about an Inch, divided into two Apartments fill'd with Seed, thick and round, of a reddish, or something purplish Colour, sharp and biting in Tast: The Root is oblong, round, thicker at the Top, fleshy, and much less towards the Bottom, of a white or yellowish Colour, sometimes blackish on the outfide, and white within, of a sweetish Tast, and agreeably piquant: It is cultivated in moift Grounds for the use of the Kitchin.

The second Kind is call'd Napus Sylvestris by Turnefort, and the Bauhins; Bunias, sive Napus Sylvestris nostras, Park. Bunium and Napus Sylvestris, Ad. Bunias Sylvestris Lobelii, Ger. in French, Wild-Navew. It resembles the cultivated Navew, except the Root, that is much less: The Flower is yellow, and sometimes white: It grows among the Corn: The Seed is prefer'd in Physick to that of the domeftick Navew: Both one and the other Sort yields a great deal of Phlegm, Salt, and effen-

The Navew-Seed is deterfive, aperitive, digestive, incisive, it resists Poyson, and carries off the peccant Humours by Perspiration; it provokes Urine, is proper in the Jaundice, in malignant Fevers, small Pox, and is employ'd in making of Treacle. The Root is excellent for inveterate Coughs, Athma's, and Phthifick, taken hot by way of Decoction; and is externally applied to digeft, refolve, or allay Pains, apply'd in Form of a Pultis. The Seed which is call'd Navette is none of the Navem-Seed, as a great many believe, but is the Seed of a Kind of wild Colly-flower, which they call in Flanders Colfa or Rape-feed , cultivated in Normandy, Britanny, Holland, and Flanders. They make of this Seed by Expresfing, an Oil, which they call Oil of Navette: The Colour is yellow, the Smell not offenfive, and the Tafte is sweet. It is common-

which the Gardiners and Labourers diffin- ly used for Burns, and serves the Cap-mai

15. Of Colliflower and Rape-Seed.

THis is a little round Seed, something like the Navette; and is brought to us by the way of Marseilles from Cyprus; there is likewise some that they bring from Genoa, but it is much inferior to that of Cyprus, and the more fo, according as it is so much the lighter.

The newest Seed ought to be chose, and that which is true Cyprus, without any Mixture, of which the Importer should shew Certificates that it is true Seed, and of that Years Growth, by reason it is of no little consequence to the Gardiner and others that fow it, to be disappointed of a whole Year's Production by the Badness of the Seed; therefore it ought not to be brought in above four

or five Months before it be fold.

The Colliflower gives me an Opportunity of speaking of another Species, which some Authors call Wild-Colliflower, and which is propagated with great Industry in Holland, Flanders, Normandy, &c. for the sake of the Seed, which they make Oil of by Expression; and this is what is call'd Navette-Oil, and by the Flemings Colfa, or Rape-Oil: This Oil is-of great use to the Woollen Manufacture in France, especially in the Time of War, when Whale or Train-Oil is scarce and dear. The Goodness of this Oil is known to a great many Persons, whose occasions oblige them to understand it; nevertheless I advise them to chuse such as is pure and unm x'd with other Oils; which may be easily done by the Gold-Colour and Goodness of the Scent; for the true Rape-Oil is sweet, and on the contrary. the Linfeed bitter.

16. Of Rice.

RICE is the Product of a Plant which grows very common in Pomet. many Places of Burope; but more particularly, that which is now fold in Paris: is brought from Spain and Piedmont. This is a Seed of so great Use and Profit, that it is called the Manna of the Poor, and throughout (eyeral





several entire Countries, they have scarce any

thing else to subsist on.

Chuse the newest Rice, well-cleans'd, large, that is to fay, plump or well-fed, white, not dusty, lest it smell rancid: Those who take notice of the Rice of Piedmont, esteem it much more than that of Spain, which is commonly reddish, and of a saltish Taste. The Use of Rice, chiefly at Paris, is for the Lent-Season, when they boil it in Water, then in Milk, and fometimes reduce it to Powder, that is to fay, Flower, which they use instead of Wheat-Flower to thicken their Milk with, as at

To reduce Rice into Powder, pour boiling Water upon it, and then wash it with cold Water, so often, till the Water remains clear; after this put it in a Mortar to pound, and when it is powdered, fet it to dry, and reserve it for use: Then you may searce it fine, because when it is moist, Rice will not

be so easily sifted.

Besides this, we sell other Pulse, as Pearl or French Barley, which ought to be chosen new, dry, plump, and well-fed, white, but not blanch'd: It is prepar'd at Charanton near Paris, but the best is that of Vitry. We likewife fell Rie that is brought from feveral particular Parts of the Country, but chiefly to make a Sort of Coffee of, which it taftes very like when burnt. The poor buy what we call in England Groats, which is made from Oats, and when ground at the Mill is call'd Oatmeal. There is Millet, which when shell'd and pick'd, they prepare in the Forest of Orleans: Besides other Pulse, as the green and yellow Peafe, which come from Normandy; and the Beans of Picardy and other places. There are other forts of Pulse fold in the Shops, which are made of Wheat-Flower, as Vermichelli, both the white and yellow fort, and Starch.

The Vermichelli, which the Italians invented, and call Vermicelli, is a Past made out of the finest Part of the Wheat-Flower, and Water, which is afterwards drove thro' fmall Pipes like Syringes, to what length or Thickness they please, so that from the Resemblance of its Figure to small Worms it is call'd Vermicelli. They colour this Paste as they fancy, with Saffron or other things, and sometimes make it up with the Yelk of an Egg and Sugar; of late years this is made at Paris, low, of a darkish Colour, the Leaves small,

vence, and Languedoc.

Starch which the Latins call Amylum, is made of Wheat-Flower and Water, which the Starch-makers form into Bread, and dry in an Oven, or by the Heat of the Sun. This used to be brought into France from Flanders and other Countries, but at present that which is made at Paris surpasses all other Places, and they transport from thence great Quantities into other Parts of France, and several neighbouring Countries.

We ought to chuse Starch for being white, foft, and most subject to crumble, likewise fuch as has been dry'd in the Sun, and not in an Oven, which makes it of a greyish white; its Use is so generally known, it needs no

Description.

Rice in English, is call'd Ris in French, and Oryza in Latin: This Lemery. Plant bears its Stalk about three or four foot high, much thicker and stronger than that of Wheat or other Corn : The Leaves are long like the Reed, and fleshy; the Flowers blow on the Top like Barley, but the Seed which follows is dispos'd in Clu-

sters, each of which is enclosed in a yellow Husk, ending in a spiral Thread. This Seed is oblong, or rather oval, and white: The Plant is cultivated in moift or low Grounds in Italy, and the Seed brought dry from Piedmons, Spain, and several other Places: Its chief Use is for Food, but is sometimes made use of in Physick: It nourishes well, and stops Fluxes, therefore is good in Armies, Camps, and Sieges, because it is of light Carriage and excellent Sustenance, and easily prepared: It encreases Blood, and restores in Consumptions: It is made into Furmity by boiling in Milk, or for want thereof, in Water; or into Cakes with Water or Milk, and fo baked dry; and is excellent good in Broth,

17. Of Fenugreek.

with any Kind of Flesh.

FEnugreek, which some call improperly Senegre, and others Bucera Pomet. or Aigoceras, because the Pods which enclose the Seed, resemble in some manner a Bull's Horn, is a Plant which grows in several Parts of France. Its Stalks are round, holand us'd in Soups and Broth, as in Italy, Pro- half round, compos'd of three and three togefoil; the Flowers small and white, bearing a ly, especially in the warm Countries; the large Pod, which is long and sharp, represent- Branches do not run along the Ground, as in ing, as faid before, a Bull's, or rather a wild Goat's Horn. The Seed carries the Name of the Plant, and is the only part of it which is fold by the Name of Fenugreek. This Seed ought to be fresh, of a lively Yellow, towards a Gold-Colour, but it becomes reddish, and changes brown if long kept: It is about half as big as a Grain of Wheat, hard and folid, and is of a triangular Shape, but the Smell and Tast of it are both offensive. The Farmers about Aubervilliers fow and cultivate this as they do Coriander-Seed, which is fent to Paris, and from thence to Holland and other Parts. The Ancients, and some Germans at this time, make a Decoction of this Seed, and eat it as they do other Pulse, to remove and expel Wind; but I believe few or none will imitate them in this Practice, which is so disagreeable to the Nose and Palate: It is much better for Cattle, and especially Horfes, to mix with their Oats to fatten them. diacum, five Medica legitima, Ger. It is of greater Use externally than internally, and needs no further Description, being so well known.

There are two forts of this Plant, Lemery. but their Difference only consists in that the second is something less than the first, but the Virtues are equal, both of them being emollient, discussing, and anodyne, fo that all Cataplasms for those purposes confift in part of the Mucilage. They are also used in emollient Clysters, for that they blunt the Sharpness and Acrimony of the Humours, especially in the Bowels.

Trefoil.

THis is a Species of Trefoil, or Saintfoin, to which some have given the Name of Medica, or Median Hay, because the Greeks, after the War with Darius, carried this Seed into Greece, and gave it the Name of its native Country, which was Media. This is a Domestick Plant, and very common in Languedoc, Provence, and Dauphine, all along the Banks of the Rhône, and in Normandy, from which Pla-

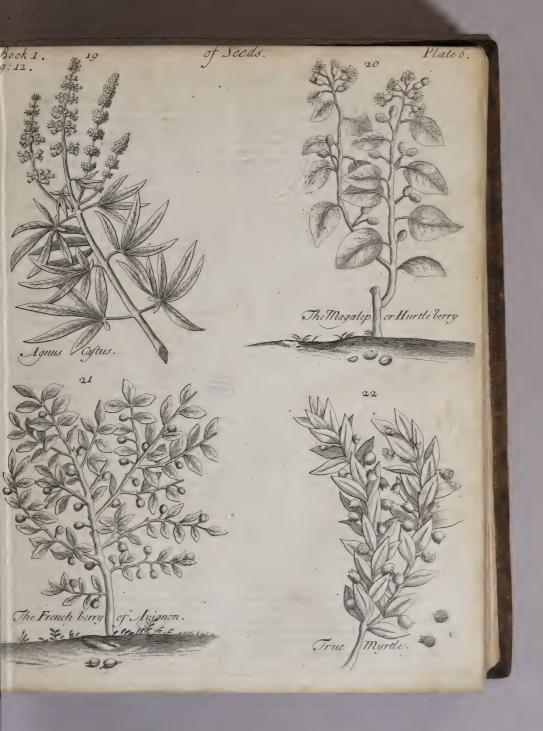
ther, fomething after the nature of the Tre- very luxuriant Plant, and produces abundant feveral other Trefoils, but has a round Stalk. reasonably thick, strait, and strong, adorn'd with feveral Shoots; over the whole, towards the Top, spring a quantity of Leaves rang'd by three and three; and it grows about the height of a foot and a half, and sometimes two foot. From among the Leaves, a purple Violet Flower rifes, like that of the Mallow, and after that the Seed : This is almost round; a little longish, and something pointed, of a pale yellow Colour when it is new, afterwards it turns red, and almost Brown when it grows.

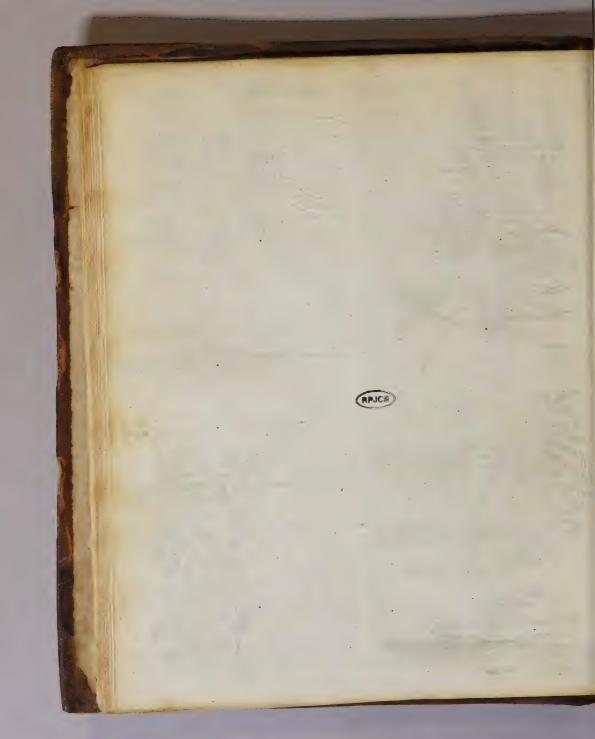
Horses, Mules, Oxen, and other domestick Cattle, love this exceedingly, but above all when it is green, if you wou'd permit them to feed on it; and especially the black Cattle, which will feed very kindly upon the dry Plant, the Excess of which is very dangerous.

Parker calls this Fanum Burgun-Trifolium Burgundiacum, in French it is Luzerne, and bears its Leaves dispos'd three and three, like Trefoil, according to Mr. Turnefort: Its Root is very long, woody, moderately thick and firait, and will bear the Frost: It is not only cultivated in the warm Countries, as Languedoc or Provence, &c. but in the moderate Parts, about Paris and in Normandy. This Plant delights in a fat watery Soil, and may be mow'd five or fix times a Year: It is extraordinary to make Cattle fat, and Cows spring with Milk; contains a confiderable deal of Oil, and a moderate Share of Effential Salt; and is of fome Service in Physick, to temper the Heat 18. Of Luzerne, Burgundian Hay, or of the Blood, and other Fluids, and to provoke Urine, us'd as Tea, or in a Decoction with Water.

19. Of Agnus Castus, or the Chast Willow.

THIS Agnus Castus, which some call by the Name of Vitex, or the Willow, is a Plant which grows in Form of a Shrub, along by the Sides of Rivers and Gardens, and that its Flowers are like thole of the Olive-Tree. ces the Seed is brought to Paris. This is a but that they are something longer: Its





Trunk and Branches are wooddy, which end in several long Boughs, fine, pliable, and intermix'd with Leaves, Flowers and Fruit in its Season, which appear white at first, but become insensibly red. Some People call these Little Berries, Small Pepper, or Wild Pepper, as well because their round Figure renders them like that fort of Pepper, as because their Taste is a little biting and aromatick.

This Plant bears the Name of the Vitex, because its Branches are pliable, like that of the Ozier or Willow: And the Name of Agnus Castus, because the Athenian Ladies who were willing to preserve their Chastity, when there were Places confecrated to the Goddess Ceres, made their Beds of the Leaves of this Shrub, on which they lay: But it is by way of Ridicule that the Name of Agnus Castus is now given to this Seed, fince it is commonly

made use of in the Cure of Venereal Cases,

or to affift those who have violated, instead of preserv'd, their Chastity.

The Seed of this Shrub is round Lemery. and grey, almost like Pepper, having something of the Taste and Smell, and therefore is often call'd by the Name: It delights in wild uncultivated Places, near the Banks of Rivers, Ponds, and Brooks in the Hot Countries, where it prospers best, and from whence the Seed ought to be chose, as much better than what grows in the Northern Parts: Take that which is fresh, large, and well-fed, it is hot, attenuating, and discussing, provokes to Urine, and excites the Monthly Courses; it softens the Hardness of the Spleen, expells Wind, and may be given in Powder, or a Decoction; and is likewise us'd externally, by way of Poultise, Go.

20. Of the Wild Cherry, call'd Mahalep.

THIS Fruit, which some have nam'd Mahalep, is the Kernel Pomet. of a small Berry, almost like a Cherry-Stone, which grows upon a kind of a Shrub. Some Authors believe it to be a kind ing in a Point, and something resembling the signifies the Prickly Box-Tree. Nettle; betwixt two Sprigs, the Fruit arises, cover'd with a small green Coat, extreamly in large Quantities about Avignon, and all thin.

This is brought to us from several Parts, but especially England; and the best Choice to be made of it, is, by taking the freshest, largest, and which is least fill'd with little Shells that are rotten. The Use of it, is for the Perfumers, who, after they have broke 'em, mix them with common Water, Rose, or other distill'd Water, to wash their Soap with, in order to make Wash-balls.

Mr. Turnefort calls this Mahaleb, Cerasus sylvestris amara: By others,

it is call'd Chamæcerasus, and Vaccinium Plinii. It is a kind of Wild Cherry, or a small Tree almost like the Common Cherry: The Wood is of a greyith Cast, inclinable to red, agreeable to the Eye, firm, and of a fweet Flavour, cover'd with a brown Bark, or a blackish Blew: The Leaves are like the black Poplar, but much less: The Flowers refemble the ordinary Cherry, white and each compos'd of five Leaves, in Form of a Rose, of a good Smell. When the Flower falls, the Fruit succeeds, which is round, black, and of the same Shape with the Cherry, containing a Nut, or Stone in ir, which yields a Kernel like the Bitter Almond. Some People call this Fruit Vaccinium, and pretend it is that which Virgil speaks of in this Verse,

Alba ligustra cadunt, Vaccinia nigra leguntur.

The Root is long, thick, and spreads it self into a great many Branches: It grows in Watery Places, on Rivers Sides; and the Fruit yields a good deal of Oil and Volatile Salt: It attenuates, is emollient, sudorifick, and drying. The Use of it, is for external Applications, but is little in Practice.

21. Of the Avignon, or French Berry for Dying, call'd Box-Thorn.

THE Avignon, which some call the Yellow Berry, is the Fruit of Pomee a Shrub which Authors call Licium, from Lycia, where it grows plentifully, as it does likewise in Cappadocia: And it is someof a Phyllirea. The Leaves are large, end- times call'd Piracantha, a Greek Name, which

The Shrub which bears this Berry, grows

the stony Places in the County of Venaissin, and likewise in several Parts of Dauphiny, Provence and Languedoc. 'Tis a thorny Shrub, whose Branches are about two or three Foot long, the Bark grey, and the Root yellow and wooddy, the Leaves small, thick and disposed like the Myrtle, but of the Size of the Box; the Berry is about the Bigness of a Wheat Grain, fometimes confifting of three, fometimes of four Angles, and fometimes made into the Form of a Heart. The Colour is Green, turning towards a Yellow, of an aftringent and very bitter Tafte.

The Use of it is chiefly for the Dyers to ftain a Yellow Colour with: But the Dutch boil this in Water with Roman or English Allum, and with a kind of Chalk or Marl, they adulterate Cerusse or white Lead. They likewise make a fine Golden Yellow of it, which is a fort of Pink for Painting in Oil

and Miniature.

By fome this is call'd Lycium Lemery. Buxi folio, by others, Lycium Alpinum, and Pixacantha, or the Yellow Berry, which is always transported dry, for the Use of the Dyers, who ought to chuse the freshest, largest and best dried. All the Parts of this Plant are aftringent, dieffive and resolving. Dioscorides recommends an Extract made of the Roots and Branches of this which he calls Cate, or Lycium : He affigns to this an aftringent deterfive Quality, proper to dry up a gleeting, or watering of the Eyes, to discuss and wast away Cataracts, for curing Ulcers in the Gums, for the Bloody-flux and Hemorrhages, whether internally, or externally applied.

22. Of Myrtle Berries.

THE Myrtle Berries are Seeds of certain Shrubs call'd Myrtles, which Authors have divided into feveral kinds, but I shall confine my self to two Sorts, which are commonly known and cultivated about Paris; the one is the Male, and the other the Female: The first is much larger and thicker, and the Leaves of a pale Green, terminating in a Point, smooth, fragrant, and three or four times as big as that of the Female Myrtle, whose Leaves are of a dark Green, and known by their being

rang'd just one before the other; beside the Smell is much stronger and finer than that of the Male, and the Branches more yielding: The Flowers of both kinds hang in Bells of a White Colour, tending a little to the Red, and arifing directly in the middle betwixt the two Feaves, from which the Berries afterwards succeed, which at first are Green, but grow infenfibly Black, juicy, (mooth, and are fill'd with a whitish Seed, enclosed with a Coat almost round.

These Berries are made use of internally and externally in all Diseases where they are proper. The Apothecaries make a Syrup and Oil from them, but they are little used in France. The Germans dye Blue with them, as the French Berry is us'd for Yellow; but the English employ the Myrtle Leaves and Branches to the fame, as they do the Sumach, for colouring their Leather, Skins, Ge. what is now fold, are of a black Colour, first well dried in the Sun, and then kept

carefully for use.

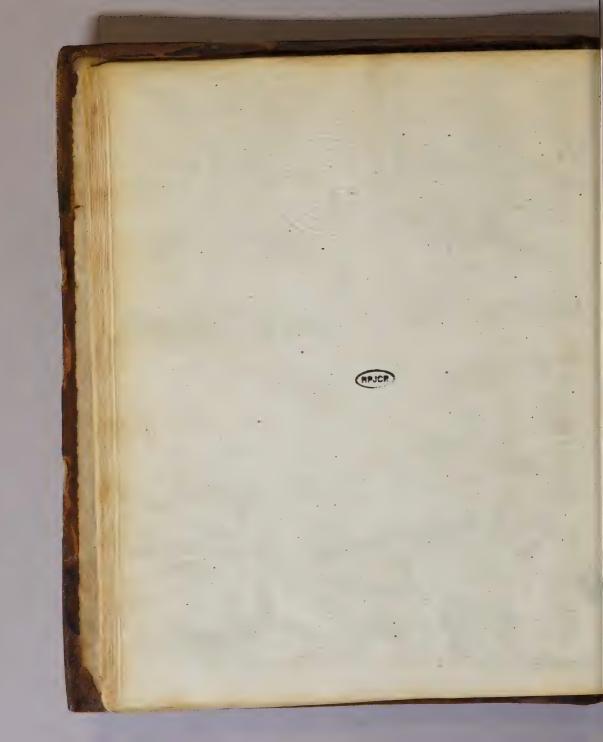
The Myrtle is a fmall Tree or Shrub that is always green and fra- Lemery. grant, of which there are a great many Sorts which are known by the Size of the Leaf, and the Colour of the Fruit-Mr. Turnefort fays, that when the Flower is gone the Berry comes in the Cup, of an oblong Oval form, representing a fort of a Crown when the Mouth of the Cup is turned downwards. This Plant is cultivated in our Gardens and Green-houses here, but is an Inhabitant of the hot Countries where the Smell is much encreas'd; it contains a great deal of exalted Oil, Flegm, and some small Salt. The Leaves and Flowers have an astringent Quality, and are us'd for cleanfing the Skin, for contracting the Flesh, ftrengthening the Fibres, &c. From thence a Water is made for the Ladies to wash with. The Berries have a binding deterfive Power, and the Chymical Oil from thence is excellent for the Hair, and used in Pomatums, and most other external Beautifiers of the Face and Skin.

23. Of Stavesacre.

HIS is the Seed of a Plant which grows commonly in ma-Pomet. ny parts of Provence and Languedoc.

The





The Leaves of the Stavefacre are large and green deeply indented and thick; the Flower is of a Sky-blue, and grows in a Husk, which afterwards contains the Seed, and is of a blackish Colour at top, of a Sad-colour below, and of a whith Yellow within; the Taste biting bitter, and very disagreeable. Chuse such Seed as is new, clean, and come off of good Ground. The Use of it is chiefly to destroy Vermin, especially those of little Children, to raise Blisters, or allay the Anguish of the Tooth-ach; but it is a dangerous thing to tamper with, and I wou'd advise such as don't throughly understand it, to let it alone.

It is call'd Staphisagria, Herba Pedicularis, or by Mr. Turne-Lemery. fort, Delphinium Platani Folio, Staphis agria dictum, or in English Louse-Herb. It railes its Stalk about a Foot and a half, or two Foot high, upright, round and blackish. Mr. Turnefore says, the Flowers are composed of many unequal Leaves, and is a kind of rough three-corner'd Seed: If taken inwardly, which is but seldom; it purges and vomits: It is used in its Powder, tho' rarelyadly, As a Masticatory for the Tooth-ach. 3dly, A Gargarism to purge Flegm. 4thly, An Errhine to bring forth Flegm and Water by the Nostrils. 5thly, To mix it with an Ointment with Lard to cleanse Wounds. Cthly, A Mixture, with Oil of Almonds, to kill Lice in Childrens Heads, which is its chief Use: So also with Vinegar. It is of a churlish Nature, and not fit to take inwardly.

24. Of Amber, or Musk-Seed.

THIS is a fmall Seed, of the Pomet.

Size of a Pin's-head, of a greyifh fad brown Colour, in form of a Kidney, of a Musk or Amber Smell, especially when it is new, which gives it the Name. This Plant which grows straight is adorn'd with a green Velvet Leaf, like that of the Marsh-Mallow, whence it is call'd Aleea Indica Villosa, which signifies an Indian Velvet Mallow: It bears Yellow Flowers in form of Bells, compos'd of triangular Husks, brown on the outside, and white within, of a Finger's length, in which the Seed is enclos'd. Chuse that which is fresh, clean, dry, and

The Leaves of the Stavefacre are large and green deeply indented and thick; the Flower is of a Sky-blue, and grows in a Husk, which afterwards contains the Seed, and is of a blackith Colour at top, of a Sad-colour below, and of a whith Yellow within; the Tafte The Perfumers use this all over Italy, and the Bead-makers in the making their Beads.

This Seed is something like the Millet, of a bitterish Taste, and is brought dry to us from Martinico and Egypt; it comes from a kind of Kermya, and is call'd by Turnesort, Kermia Egyptiaca Semine Moschato. This Plant carries its Stalk a Foot and a half high; the Leaves are of an unequal size, but cut and indented very deep. The Egyptians use this internally as a Cordial, to fortisse the Heart, Stomach and Head, and to provoke Lust: It gives a grateful Scent to the Breath after Eating, but is not proper for such as are subject to the Vapours.

25. Of Cochenille:

THE Cochenille, call'd Mestich, is the Seed of a Plant about two or three Foot high, adorn'd with Leaves two Fingers thick, of a beautiful Green, and very prickly; after which grow Buds or Husks in form of a Heart, of a Green, tending to a Yellow Colour, in which are enclosed a Quantity of small Seeds of the Size of a great Pin's Head, partly of a state Figure, almost triangular, of a greyish Silver Colour to the Eye, and as red as Blood within.

We bring this Seed from Peru and other Places of New-Spain, as the Salt-Sea, and Mexico, from whence it is brought by the Spanislo-Galleons, or Plate-Fleet to Cadiz; as Ipecacuana, the Cortex, Salfa Parilla, and other Drugs are; and from thence transported to England, Holland, or France.

The Mestich Cochenille is a thing of that prodigious Consequence to the Spaniards, that they wou'd undergo any Punishment, rather than to yield that it shou'd be propagated in France.

There are very few Persons but what believe that this Cochenille is a llittle Animal or Insect; and I was of the same Opinion, 'till convinced of the Truth of the contrary, by two Letters of the Sieur Francis Rousseans,

a Na-

near St. Domingo, who writes to me thus.

' The Cochinille Monsieur, which you are e desirous to know by the Plant, grows about wo or three Foot high, furnish'd with Leaves of two Finger's Thickness, of a fine the Seed is finall, and contain'd in Husks ' form'd like Hearts, turning to a Yellow when they grow ripe. What is brought to Spain, comes from all those Parts call'd " the Salt-Sea, for the little we have about Leoganna, is not worth speaking of.

We may see this is quite contrary to what is reported by Monsiur de Furetiere, who confounds the Scarlet Grain, which is Kermes, with the Cochinille; and, at the End of his Discourse, observes, that it is a greyish Worm, or Infect; which comes from the Indies, and which they traffick confiderably in; fo that from Tlascala, a City in Mexico, they deal for more than Two hundred thousand Crowns a Year. And, after him, the Reverend Father Plumier, a Minime Friar, told me, the 15th of Septemb. 1692, from his own Mouth, and certify'd under his Hand, as follows.

' The Cochinille, fays he, furnam'd Meflich, is a small Insect like a Bug, which is found upon many different forts of Plants, as well in New Spain as the American Isles: These little Animals are so common in the Countries thereabout, that they make a fort of Crop of them, when they are dry'd.

All kinds of Plants are not equally proper to supply these little Animals with Aliment capable to produce a thorough Redness, therefore the Inhabitants of those Parts feed their fmall Cattle upon the Opontium, which is void of the red Juice that contributes so confiderably to strike the Colour deep, which the Dyers feek after; and, as the Ants delight exceedingly in these little Insects, the Spaniards take care to fill those Places full of Water, by Ditches, where the Plants grow, whereof we have been speaking, to engage the Ants to go thither.

The chief Plant where we find the Cochinille, is that which the Americans call Raquette, or Cardasse; and the Botanists Opontium majus spinosum fructu sanguineo, which fignifies a large Indian prickly Fig, whose Fruit is as red as Blood.

This Plant is wonderful in its kind, as

a Native of Auxerra, dwelling at Leoganna well from its large thick Leaves which are of an Oval Figure, a glorious Green cover'd with long Thorns, very sharp, of a yellow Colour; and at the End of the Leaves grow large Flowers, of a Pale Rose Complexion, follow'd with a fine Red Fruit. These little green Colour, full of Thorns on all fides; Insects, of which they make the Cochinile brought to us, are of a Silver Grey, but of that particular kind, that they multiply after a prodigious manner, so that a Hundred will produce Millions.

On the 30th of January 1693, the said Father Plumier brought me a Letter writ by

himself, to this purpose.

Father Plumier's Declaration concerning Cochinelle.

The Cochinelle which is brought from ' New Spain, or the Continent of America, is an Infect of the Size and Form of a Bug, which clings to feveral forts of Trees, but more particularly to the Acacia, which is a fort of wild Cherry in the French Islands of America. It is a very fruitful Animal, and carries betwixt the Thigh and the Body an infinite number of Eggs, which are almost invisible, yet produce an innumerable quantity of very small red Insects, which, like the Ant, are very greedy. When the ' old ones are crush'd, they yield a red Juice inclinable to Scarler, mix'd however throughout with a little tinge of Yellow; in like manner, those which are bred upon the Trees, do not produce fo fine and lively a Colour: But the Indians, to render the Juice of a beautiful Colour, they breed these Insects upon certain Plants, which are call'd in Latin Opontium, and which the French call Raquettes. These produce a thick Fruit, just like our Figs, full of an admirable fine red Juice, of which the Cochinelles feed; and these are much more bright and lively than those which are bred on other Plants. When I discover'd these Infects in the Isle of St. Domingo, I show'd them to two Indian Slaves, that were Natives of the Country where they breed, and they affur'd me both that these were those ' they made Cochinelle of.

Besides what I met with in my Voyage to St. Domingo, I would farisfy you concerning this Infect, from the Authors who

' have

have writ of America, and particularly from the Sieur de Laet, in his Description of the West-Indies. Book the Vth, Chap. 3d.

' The Cochineal Grain comes from feve-' ral Provinces of New-Spain, taken from the Tree call'd Tuna, which bears very thick Leaves, as it grows in Places more expos'd to the Sun, or cover'd from the North-East Wind. It is a very little Ani-' mal, living as an Infect much like a Bugg; for when it first clings to the Tree, it is · less than a Flea, and comes from an Egg or Seed the fize of a Mite, call'd in Latin ' Acarus; this fills the whole Tree, and foreads over the Garden: They hoard up their Treasure or Stock like the Ant, once or twice a Year. These Plants are dispos'd in order, as they do the Vines in a Vine-Yard; and the younger they are, the more plentifully they bear, and afford a better Grain; but it is necessary to preferve them from being over-run with other Infects, and no less from Pullen, which ' will eat the Seed.

Note, This Tuna is nothing else but the said Opontium, of which I spoke before; there are several sorts of it, but the Choice for cultivating Cochineal ought to be made of such whose Fruit produces the finest red

Tuice.

But not agreeing to what Mr. De Furetiere, the Reverend Father Plumier and Laet have writ, I find my felf more and more oblig'd to believe that Cochineal is the Seed or Grain of a Plant, because the Sieur Rousseau takes notice to me at the End of his first Letter, in order to justifie what he says, That he wou'd fend me the Plant, which he hoped to do with God's Assistance: And in his Second Letter, dated the 25th of May, in the same Year, he writes thus:

SIR,

N Relation to the Cochineal, about which I have been speaking, I'll tell you a pleasant Story of the Minime Father, who is a pretended Provincial, and calls himself a Botanist; he is about 45, or 50 Years Old, of a blackish Complexion, and fancies himself very expert; he seldom speaks but it is very unhappy for him, if he talks of any Thing of Consequence:

' He raifed several Acacias, which are very prickly or thorny Shrubs, and what they call Cardasses, which are a fort of Plant that bears Leaves of two Fingers Thickness, made a little like the Raquettes, which produces Fruit of the Shape of a Fig, of a Taste a little acrid, and which makes the Urine red: Certain Animals that frequent these Trees he was put upon to affirm were the Cochineal; and that all the Inhabitants of St. Domingo, who knew the Plant, and understood its Growth, had confirm'd the same: This loft the Credit the good Father had there, especially with Mr. De Cussi, who play'd his Part among the rest of them who deceived the Minim. He parted for France sometime after, where I know he arriv'd with the same Error concerning Cochineal that he had been in at St. Do-

The Sieur Rousseau inform'd me again, that he had found upon these Acacia's, a Species of little Creatures of the Size of a Bugg, which they call'd Vermillon; these are a little thicker, but they are of no use, because they cannot dry them; 'tis apparent, as we may rationally conjecture, that this was the pretended Cochinelle of Father Plumier.

Besides the Letters of the Sieur Rousseau, there are other things which deserve our Credit, as that we cannot discover the Feer, Wings, Head, or any other Part of an Animal in the Cochineal, which we have, or in all those Observations that are made of the true Grain; and if these Proofs are not sufficient, we may look into the Judgment of Ximenes and William Piso, in his History of the Plants of Brasil, where, after he has given a long Description of the Species of the Indian Fig, which is call'd Jamacan; he says it is the same Plant that in New-Spain produces and bears the Cochineal.

The Mefleck Cochineal is the best fort to make choice of, that is, such as is plump, large, well fed, clean, dry, of a Silver shining Colour on the Out-side; and when it is chaw'd in the Mouth, that tinges the Spittle of a bright Red Colour, and reject that which is meagre, salt and light; and take particular care, least there be small Stones on the Inside which will inhance the Price.

Medicine; but is abundantly more used by the Dyers, as their principal Basis for the Scarlet Colour. Some People use it for to colour Sugar, Cream of Tartar, or other Acids.

of Carmine.

Carmine is a very precious and rich Commodity, which is made of Mefteck Co-chineal. 'Tis a Flower, or Powder of a most beautiful red Gloss, and that feels like Velvet, which is made by the Affiftance of Water, together with the Choiian Seed, which is well prepared and dried, that we call Carmine. To make it in a Condition requisite for use, it ought to be reduced to a most impalpable Powder, of a high Cololour, and prepared as exactly and faithfully as is possible; for the great Price of it is the Reason that several wicked Persons sophisticate it: Upon that account, that the Merchant may not buy it too dear, or be cheated with the second Sort for the first; I must inform him it is rothing near so fine. Some are for Carmine of Rocou, but it gives. a Tinge more of an Orange Colour. use of Carmine is for Miniature, and making the finest Red Draperies.

Of fine Lac, and other Sores.

The fine Lac is that which takes its Name from Venice, because what has been fold among us hitherto, is brought from thence: But at present several Persons in Paris make it to answer effectually; fo that a great many Painters prefer it to that of Venice. This Lac is a hard Pafte, made from the Bone of the Cuttle Fish, which is colour'd with a Tin-Cture drawn from Mesteck Cochineal; that of Brafil, or Fernambourg, with burnt Allum from England; Arlenick, and a Lye of Egyptian Niter, or white Tartar; and by means of Cloth strain it, and proceed as in the making of Indigo: From thence reduce it into a Pafte, of which make Troches, and dry them for Service. The Use of this Lac is both for Miniature and Painting in Oil.

Of the Dove-Colour'd Lac.

This is made likewise with English Allum,

The Cochineal, when dry, is of good Use in and form'd into Pastiles of the Thickness of one's Finger, and so dry'd. That of Venice is abundantly finer than that of Holland or Paris, because the White that the Venetians use, is much finer and properer to give a lively Colour than the White of Holland or France. The Use of this Lac is likewise for Painting. There is a third Sort call'd Liquid-Lac; of which I shall speak in the Chapter of Fernambourg-Brafil.

Of fine Turnesol in Linnen.

The fine Turnefol of Constantinople is made of Holland, or fine Cambrick, which has been died with Cochineal, by means of some Acids. This is us'd for tinging of Liquors, as Spirit of Wine, Cordial-Waters, or the like. The Turks and others, in the Levanz, call this Turnefol for Linnen, the Red Bi-

Of Turnefol in Cotton, or that of Portugal, vulgarly call'd Spanish-Wool.

The Portuguese bring this to us in Cotton. which is of the Figure, Thickness and Size of a Crown-piece; they use it to colour their Gellies, but it is much less us'd than the Turnesol in Linnen, which is made entirely of the Mesteck Cochineal. The other Sorts of Cochineal, are the Campechy, the Tetrachalle and the Wood.

The Campechy-Cochineal is no other than the Siftings of the Mesteck; the Tetrachalle nothing but the earthy, or droffy Part of the Campechy; and the Wood, or Seed Cochineal, that which we find upon the Roots of the great Pimpernel, call'd by the Botanists, Pimpinella Sanguisorba.

26. Of the Scarlet Grain, or Alkermes.

THE Scarlet Grain, which the Pomet. Latins call Grana Tinctorum, the Greeks, Coccus Infectoris, and the Arabs, Kermen, or Kermes, is the Seed, or rather Excrement, of a little Shrub, whose Leaves are prickly, almost like those of Holly-Oak: They are found in great Quantities in Portugal, Spain, Provence and Languedoc.





ple, throughout all Provence and Languedoc. where the People gather it, and fell it by the Pound to the Apothecaries; who, from the Pulp, make a Syrup they call Alkermes, and the Remainder which is left in the Sieve or Strainer, after it is cleans'd, they fell again to the Dyers. Those which they wou'd transport, or fend to other Places, they dry, as well for Physical Use as the Dyers, who use great Quantities of it; for which Purpose they chuse the largest and most weighty, and that which is new, that is to fay, of that Year; for when the Seed grows old, it engenders an Infect, which will eat it up, and makes Holes in the Seed, fo that it grows light and loses all its Virtue. That of Languedoc passes for the best, being commonly large, and of a very lively Red, which is contrary to that of Portugal, which is less esteem'd, as being smaller, leaner, and of a blackish Red.

The Alkermes, or Scarlet Grain, is reckon'd very Cordial, and proper to comfort Women in Child-bed, giving half a Dram of it in Powder in an Egg, without Cocheneal, which a great many Persons advise, who believe two Grains of that will effect the same thing.

Of the Scarlet Creon.

As to the Scarlet Creon, which is made of the Powder of the Grain when new, it is a very fine Red, and ought not to be made up with Vinegar at all, as that commonly is which comes from Portugal, which is done to encrease its Weight, as well as to give it a fine Colour. This Cheat is easy to discover, because it will be moift, and yield a strong and very disagreeable Smell. This Creon, which is the most noble Part of the Seed, is never us'd at all in Phyfick, for want of Knowledge, but very much by the Dyers for their high Colour.

Of Syrup of Alkermes.

The Syrup of Alkermes is the Pulp of the num & Coccus Baphica, has a thick Shell fresh Kermes, and the Powder Sugar of Bra- or Husk, like the Juniper-Berry, is round

I shall not stay to describe the Shrub which fil, or the small Loaf-Sugar reduc'd to Powbears this Grain, all forts of Authors having der, and mix'd together; afterwards melt made mention of it; I shall only say it is it over a gentle Fire, then put it into little one of the principal Riches of the Countries Barrels made of white Wood, such as we where it grows, especially for the poor Peo- receive it in. Great Quantities of it is made, as well at Nismes as at Montpelier, which they fend to most Parts of Europe.

Of the Confection of Alkermes.

The Syrup of Kermes is very little us'd in Phyfick, but that which is compos'd of the Juice, together with the Juice of the Rennet Apple, Rose-Water, raw Silk, and white Sugar, Powder of Oriental Pearl prepar'd, yellow Sanders, fine Cinnamon, Azure Stone prepar'd, Leaf Gold, of which is made a thin Electuary, which we call Confection of Alkermes. Every-body now rejects Musk and Ambergriese; for, according to the Advice of Physicians, these Perfumes are prejudicial to the Women. As to the Preparation, those that are defirous to make it, may confult the Dispensatories that treat of it; but we have it ready made from Montpelier, as the best, because of the Newness of the Juice, which they have there at Command, and which they transport to other distant Parts. But there are a great many Frauds impos'd upon the World, particularly in France, under the specious Name of Confection of Alkermes from Montpelier; therefore its better for all Druggifts, Apothecaries, and the like, to buy the Juice or Syrup uncompounded, to prevent their being otherwise deceiv'd.

Monsieur Charas, in his Dispensatory p. 314, attributes mighty Virtues to the true Confection of Alkermes, and says, that the faid Confection is, without doubt, one of the best Cordials that was ever discover'd in the Galenical Physick, for it recruits and refreshes the Vital and Animal Spirits, allays the Palpitation of the Heart and Syncope, very much strengthens the Brain, and other noble Parts, and is an Enemy to Corruption, preserves the natural Heat, drives away Melancholy and Sadness, and maintains the Body and Spirits in a good Condition. It may be taken by it self, or in any other Liquor, from a Scruple to a Dram or two.

The Kermes, Coccum Infectorium, Gra-

a Juice of the same Colour, of a vinous all the Cloves or Grains are without Tails, Smell, the Taste a little bitter, but agreeable. 'Tis a little Shrub, whose Leaves are like' the Holly Oak, but less, and more indented on their Sides with prickly Thorns: The Branches bear Abundance of Shells adorn'd with Flowers, which afterwards turn into Fruit, which grows in separate Places. The Kernels are oval, and thick cover'd at the Top with a black Cap: The Skin of the Kernel is of the Nature almost of Leather; it contains an Almond, which is divided into This Shrub grows in the hot two halves. Countries, as was said before.

The Origin of the Kermes, proceeds from a Kind of little Worm in the Holme, or Green Oak, on which they feed; it produces a Cod or Vetch, which is fill'd with Juice, and which is very red when it is brought to us. This little Infect is enclos'd in the Cod. We have had a very curious Discovery of this, from Mr. Fagon, chief Physician to the King; and it is confirm'd by a Circumstance, which is apparent when the Kermes is dry'd, for then it is fill'd with a vast Quantity of Worms and Flies, almost imperceptible, which convert all the internal Substance of the Berry into little Insects, and leave nothing but a light Husk or Skin behind. 'Tis easy to apprehend that these little Worms, &c. come from the Eggs which the first Worms which enter'd the Cod produc'd. To remedy this Accident, which fo much concerns the good Effect of the Kermes, every one ought to let the Cods lie some time in Vinegar before they are dry'd, by which means the acid Liquor will destroy those little Worms.

28. Of Amomum in Berry, and the Rose of Jericho.

HE Amemum. Racemosum, or Pomet. that in Clusters, or the Raisin Amomum, is a Kind of Fruit we receive by the way of Holland or Marseilles, growing in feveral Parts of the East-Indies, rarely in Bunches, but much oftner in the Clove.

It grows upon a Shrub, whole Leaves are of a pale Green, longish and straight; it is, Size, and Figure, but it is much fuller of out Prickles, with black Fruit, or the Black

fmooth, thining, of a fine Red, fill'd with Seed, and less Juice in it; and in particular, or any Stalks, but stick close together on Heaps or Clusters, like Pepper: It is commonly divided into Cells.

The Cloves are fill'd with a Purple Seed, flicking to one another like Glue, making altogether a round Figure, conformable to that of the Clove, and which are cover'd with a white Film very delicate, and divided into great Heaps by equal Membranes, but in such a manner as makes it easy to separate them: Their Tafte is sharp and biting, and their Smell extreamly piercing and aroma-

Chuse the freshest Seed you can get, with the roundest Husk, and of the most lively fair Colour, heavy, and well fill'd. Caft away what is light and open, containing a black wither'd Seed: But esteem those that are well fill'd with Seed, large, plump, of a warm picquant Taste, very aromatick, and the most resembling the Cardamoms.

The chief Use of the Amomum is for Treacle, fuch as that of Venice, London, &c. for which make use of the cleanest and best sed

Several Persons do not know this Drug from the great Cardamome, which is no other but the Maniguette in French, of which I shall take notice in the following Chapter. There are other Seeds which carry the Name of the Amomum, as that of Pling, which is a red Fruit, and altogether like the Alkekenge, or Winter Cherry, which is very common: There is another fort which the Dutch and English call Amomi, and we Jamaica Pepper. I must advertise you, that when you meet with the Name of Amomum, or Amomi, in Authors, you need use no other than this cluster'd Amomum.

All Persons that deliver any Re-Lemery. ceipts concerning Amomum, mean the Amomum Racemosum, or cluster'd Amomum, which the Description before is given of; but there are several other little Seeds call'd by that Name, as the Amomum falfum, feu Pseudoamomum, or the Bastard Amomum: It is a little black Fruit, of the Nature of the Gooleberry, or the Juniper-berry, which grows upon a Gooseberry-Bush call'd Groffularia non in some sort, like a Muscat Rassin in Colour, Spinosa, fructu nigro, or the Gooseberry with-





Pepper.

Gooleberry. 'Tis of little or no Use in Phyfick, any more than the Amomum of Pliny.

The small Spice which the Dutch and Portugueze call Amomum, and the French, Pepper of Thevet, is round, and as big, or bigger, than Pepper, of a reddish Colour, appearing at one End like a small Crown, of a Taste and Smell like a Clove, a little pungent and aromatick; it has likewise the Virtue of the Clove, but is scarcer. Some call it the small round Clove, as it is describ'd by Baubin, p. 194, with the Name of Amomum quorundam odore. Caryophylli. The Tree or Plant that bears this, is represented here by Pomet.

28. Of the Great Cardamome.

Pomet. THE great Cardamome, which the French call Maniguette, or Grains of Paradice, is a triangular Seed of a reddish Colour without, and White within, of an acrid picquant Taste, like that of Pepper; which is the Reason that the Hawkers

frequently fell it for Pepper. The Plant which bears this Seed, has green Leaves first, after which comes a Fruit, or rather a Husk, of the Size and Figure of a Fig, of a fine Red Colour, in which is enclos'd these Grains of Paradice: It is call'd Maniguette, or Melaguette, from a City of Africk, call'd Melega, from whence they us'd to bring it into France; but at prefent it is brought from several Countries, by the Way of St. Malo's and other Places. This Drug is very little us'd in Physick, but

29. Of the lesser and the smallest Carda-

by the Diftillers, and those of whom I have

THE leffer Cardamome is enclos'd in a Pod of the Length of a Child's Finger, made triangular; it grows upon a Plant, which some have affur'd me is very luxuriant, and whose Leaves are like those of the Trefoil, ending in a Point, and much indented; it grows in feveral Parts of India. These Pods are very rarely brought into France, and are of very little Ule, because

the little or smallest Cardamome is more enquired for, as well by Foreigners as our felves, as having much more Vertue in it than the less or middle sort.

The small Cardamome, which is what is most common among us, and brought from Holland, is a little Husk or Pod of a triangular Figure, on the outfide of a light Grey, ftrip'd and adorn'd with a small Tail of the same Colour; when open'd, you'll find a Quantity of small Seed in it of the Figure and Taste of the Amomum, of which I have

been speaking before.

The Plant which bears the small Cardamome is as yet unknown, notwithstanding the diligent Enquiries I have made; but in all Appearance, it is like the middle fort, and has no other Difference, but what the Diversity of Places where it grows gives it. It is brought to us by the Dutch and English, from the Kingdom of Visapour, where it is very scarce. Chuse the freshest, well fed, weighty and leaft fill'd with Husks and little Straws, but well dried and found: This is what we chiefly use in Medicine, but the Dutch use it much for chewing.

His Description of the great and leffer Cardamone differs nothing. Lemery. from Pomet: But the third or least

fort is call'd the simple Cardamome for it's Excellence, because it is better and most us'd of any of the three. It is brought to us in little triangular Husks or Pods, of an Ash Colour, tending to White; they stick or adhere together by little Fibres, but are eafily divided from their curious Fibres; the Seed is then of a Purplish Colour, and of been speaking, who buy it to mix with an aerid, biting Aromatick Taste. All the Cardamomes contain in them a great deal of Volatile Salt, and Essential Oil.

They are proper, particularly the least, to attenuate and refine the gross Humours, to expell Wind, fortifie the Head and Stomach, affift Digeftion, excite Seed, provoke Urine and the Terms, refift malignant Vapours, and to chew in the Mouth to procure Spittle. It is call'd Cardamome, or sweet Nasturtium, because it has a smell much like the Nasturtium, or Cresse from whence it is deriv'd.

They are us'd from half a Dram to a Dram in Powder, or you may make a Decoction of 'em in Wine or Water. Cardamome-Water is made of them, being fweetned ! fweetned with double-refin'd Sugar; 'tis a very good Stomachick Water, helps Digeftion, and is an Antidote against the Piague, or any malignant Disease. A Tincture drawn from it in Tincture of Salt of Tartar, is excellent against the Stone, Strangury, or Stoppage of Urine. Dose from two Drams to half an Ounce.

30. Of the Black Cummin-seed.

Pomet. THE Black Cummin, is the Seed of a Plant, about two Foot high, having little green Leaves indented and fnip'd deep; after which they bear white blewish Flowers, and then Husks or Pods, in which are contain'd a longish Seed of a grey Colour, picquant Taste, a strong and aromatick Smell.

Chuse the newest, plumpest Seed, of a fine bright Yellow, of the most aromatick Smell, as well as Taste, that you can possibly meet with: That which comes from Iraly is the best, and more esteem'd than that which grows among our Corn. The Use of this Seed is to kill Worms, correct Wind, and some Persons affirm it to be a very good Antidote; they reckon it likewise very useful

There are several other sorts of this Seed, which I shall forbear to mention; some of which the Indians use in the Plant to seed their Horses with, and the Seed in Physick to cure Fevers, as we may see in the Indian History. There is another sort, as yet very scarce, which the Turks use, as several Persons of Quality in France do, to clean their Teeth. Another kind there is, call'd China Anise, which serves the Eastern People, in

fweetned with double-refin'd Sugar; 'tis a Imitation of the Chinese, to prepare their years good Stomachick Water, helps Dige- Thea and their Sorbec.

This Seed is entirely like that of the Coloquintida, as well because it is of a dun Colour, as that it shines and is of an agreeable Smell: It is contain'd in small Pods, thick and hard. 'Tis with this Seed, and the Root Nisi, that the Dutch make their Drink of Thea and Sorbec more agreeable than in France: The Quantity is two Drams of Nifi, four Ounces of boiling Water, half an Ounce of Tea, and a Dram of China Annifeed. There are a great many other Seeds worth the Druggift's Knowledge, as well as others; but they being so common, it wou'd be counted superfluous to name them, as Lettuce, Violer, Succory, Poppy, Mallows, Turnip, Radish, Hollyoak, Fleabane, &c.

There are other Seeds commonly in Use, and as commonly known, as the sour cold Seeds, Civuls or Water-Melons, Gourd, Melons, and Cucumber, which are chiefly us'd for Emulsions, and sometimes to express a cooling Oil from them for the Skin, and other Things of the like Nature, that tend to the Ornament of the Complexion, &c. The Method of making all forts of Oils by Expression, is so universally known, it wou'd be lost Labour to expariate upon the Method, there being no more in it than blanching the Seed, bearing in a Mortar, and pressing the Oil from it cold: After the same way is made the Oil of Ben, White Pine, Poppy, Sweet or Bitter Almonds, Pistacea Nuts, &c.

Authors have given the Name of a Seed to a fort of Plant which has neither Leaves or Root, which is what we call *Dodder of Time*, whose Description you will find in the Chapter of Epithymum.

The End of the First Book of SEEDS.

BOOK the Second.

Of ROOTS.

PREFACE.

Understand, by the Root, that Part of the Plant which is in the Earth, and which draws in the Nutrition, and communicates it to other Parts produced from thence, as the Stalk, the Leaves, the Seed, &c. The Roots which we commonly sell, are not only many in Number, but very different in Figure and Virtue. Our Herbarists supply us with many Roots, which require no other Preparation than to be clean'd and dry'd, which is sometimes well, and sometimes ill, according to the Capacities of the Herb-Dealers; such as Enula Campana Roots, Marsh-mallows, Lilly Roots, and the like. We have others brought from Foreign Countries, Part of which are very shrous or stringy, hard and useless, as Turbith, Bastard Turbith, White Dictampy, &c. which are separated from the Root, as is practis'd upon several Roots in France, as Cinqueloil, &c. We have others brought to us cut into Filets, as Jalap, Mechoacan; in little Bits, as the Lesser Galingal; in larger Sticks, as Rhubarb, Rhapontick; the entire Root, as Angelica; some adorn'd with their Leaves, as the Virginia Snake-Root; others are brought in long stringy Fibres, as Sarsaparilla: And, last of all, some are wash'd and cleans'd from their outward Skins, as Squills, Florentine Orris, and the like.

There is no less Difficulty in the Knowledge of Roots than of Seeds, as well by reason of their different Kinds, as the many Distinctions which are common among one another. 'Tis for this Reason we ought to be very circumspect in our Choice, and know the main Distinctions of every one, to make an exact Judgment of them, which is difficult to be done without Practice, and where a Man does not make it his continual Business. Those who want Roots, ought not to go about hunting for the best Bargains, but apply themselves to such Merchants in whose Probity they can put their Considence, tho', upon the whole Matter, the Price

is a very considerable thing.

Those Persons who value not their Conscience, make no Scruple at all to sell one Thing for another, and ask as much for an Ounce of what is demanded of them, as they would sell a Pound of the same Drug for; as some People sell Tormentil for Contrayerva. Is it not likewise as profitable to charge the several Sorts of dry'd Drugs at an higher Price, because most Sorts of Routs are subject to be Worm caten, as Angelica, the Acorus Verus, &c. and to waste and be spoiled, as Rhubard, and the like.

3. Of

1. Of Ipecacuanha, or Ipecacuana.

HE Ipecacuana, call'd Beguquella, likewise Specacuanha Ca-Pomet. gofanga, Beculo, Beloculo, or the Golden Mine, is a little Root, which the Dutch and Portuguefe bring us from the Coast of Brazil, call'd Rio de Genecyro, which is a River on the South-fide of that Country, where their Golden Mines are, which gives this Name to it. This is gather'd together by those that are condemn'd to the Mines; and that which makes it the scarcer is, that there is not above a dozen Pounds gather'd in a Year, and if they wont exchange that against other Merchandises, it will yet make it much dearer. The Dutch and others bring us three forts of Ipecacuana, to wit, the brown, which is the first and best Sort, and consequently the dearest; the second which is grey is less strong than the brown; the third is white, of which I shall speak afterwards.

These Plants call'd Ipecacuana, as well the brown as the grey, are of a small Height, partly creeping, partly rifing about half a Foot high; the Leaves of them are like those of the Pellitory of the Wall, in the Middle of 'em grow white Flowers of five Leaves apiece, supported by little Heads with a fort of brown Berries, which when they are ripe, are of a reddish brown Colour, the Size of a wild Cherry: These Berries contain a white Pulp full of Juice, in which is inclos'd two Seeds hard and yellowish, approaching to the

Figure of a Lentille.

This Root ought to be chose fresh, new and well fed, hard to be broke, refinous in its Substance, and having a Nerve or Pith in the Middle, but take care that it be not mix'd with the Stalk, and Filaments, or Threads, which those that sell it oftentimes throw amongst it, and which gives it an acid, bitter and disagreeable Taste. Some Friends that I have at Lubon, in Holland, and at Marseilles, have assured me, that the best Ipecacuana is the brown, which is chiefly that which comes from the Gold Mines, and the other two forts are brought from the lowermost Parts of the Mountains thereabouts and other moist Places.

The Use of the said Root, is for the Cure

of Dysenteries; several People will have it that this Root is Alexiterial, but notwithstanding that, I would not advite any Body to make use of it that Way, but with great Precautions, this acting with too great Violence when given in Infusion or Substance. The common Dose is about half a Dram to a'Dram in Powder, taken in any proper Liquid Morning and Evening: This Dose is too large for most Constitutions, and it will act very well from 20 Grains to 30, plying it with green Tea, sage Tea, or plain Possetdrink.

Of the White Ipecacuana.

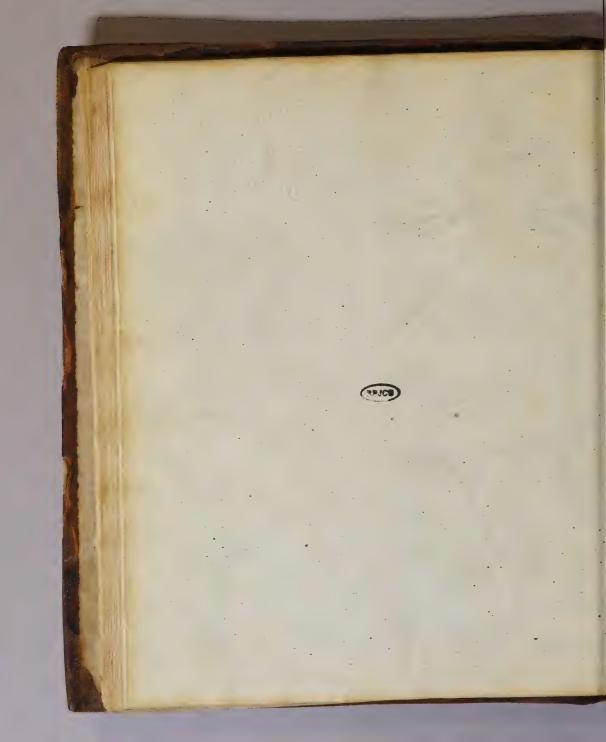
The White Ipecacuana differs from the other two, in that the Root is white, and altogether made like the white Behen, or the white Dictamny Root, and the Leaves resemble those of the round Garden-sorrel. The Spaniards and Portuguese prefer this white Ipecacuana before the two foregoing forts, especially for their Women with Child, and little Infants, by reason it works with less Violence, and is commonly given in Substance from half a Dram to a Dram, and in Infusion to two Drams.

In the Month of January 1690, this was made a Thesis in the Physick Schools of Paris, concerning the Brasil Root, or Ipecacuana; in which Places it was observ'd that the Americans had it in very great Esteem, as well because they pretended it was a very powerful Antidote, as because it was very useful for the Cure of many tedious and troublesom Diseases; but, above all, for the Cure of Dysenteries, and other Fluxes of the lower

Belly.

Some will have it, that Mr. Helvetius, a Dutch Physician, brought the Ipecacuana first into Use among the French about Five or Six Years ago; but I can affure you to the contrary, because it is above Twenty Years ago fince I saw it at Paris; for Proof of which, I remember there was a Quantity in the Shop of Mr. Claquenelle, Apothecary, which fell into the Hands of Mr. Poulain, his Sonin-law, who was likewise an Apothecary, and introduc'd it into Practice, by the Direction of Helvetius.





The Ipecacuanha, or Specacuanha, Lemery, is a small Root, of the Thickness of a Quill of a moderate Size. which is brought to us dry from feveral Parts of America. There are three Species or Sorts of it the Brown, the Grey, and the White. The Brown is the strongest and most valued of all; it is the compacteft, crooked, wrinkled in Curls, stringy in the middle, difficult to break, of a smart Taste, and bitter: It grows in Brasil, &c. as said before by Pomet.

The Root of the Grey Ipecacuana differs from the former both in Colour and Virtue, for it has less Efficacy. This is brought from Peru, by the Way of Cadiz, and the Spani-

ards call it Bexugillo.

The third or white fort is different from the two others, not only in Colour, but in Figure; for it is neither crooked nor uneven. Some Authors say it is small as Penny-royal, and that the Leaf is foft and woolly, and that the Flower is white: Others will have the Leaf like round Sorrel. It grows low, and in moist Places. The way to chuse any of the three Kinds, is to take the largest and best grown.

gent; it works upwards and downwards, nels or Bloody-Flux. according as the Humours are more or less foluble; strengthens and corroborates the Fibres of the Viscera, by means of its earthy Parts: It is one of the best Remedies, and most certain, for the Cure of the Dysentery or Bloody-Flux: It stops likewise other Scourings of the Guts, but not with that equal Success. The Dose, beaten into fine Powder, is from 20 to 30 Grains of the Brown. from 30 to 40 Grains of the Grey, and fo to a Dram of the White Root. The first who brought this into Use in France, was Monsieur Le Gras, a Physician, who had made three Voyages to America in the Year 1672: It was shown afterwards by the Abbot Bourdelot; and, in one of my Courses of Chymistry, I had some given me by a Druggift, but without any Knowledge or Instruction into its Qualities at that Time.

2. Of the Contrayerva Root.

He Contrayerva is the Rootof a Plant which has green creeping Leaves, full

Figure of a Heart, in the Middle of which arises a Stalk wholly naked, about a Finger's Thickness. It is brought to us from New

Chuse such Roots as are fresh, well-fed, adorn'd with long Filaments, or Fibrous Strings, that are knotty and ponderous, of a yellowish Red on the Out-side, and of an Ashcolour'd White within, and a fweet aromatick Taste.

It is an Alexipharmack, very powerful for relifting several forts of Poisons, and is therefore call'd by the Spaniards Contrayerva, which fignifies in their Language a Counter-

There grows now in Peru a Root very like it, which is call'd Radix Drakena, from Sir Francis Drake, who brought it first into England. But as the Roots of the Contrayerva are an Antidote; so, on the other hand, the Leaves are a mortal Poison.

Several People, at this Time, make use of this Root reduc'd to Powder, and mix'd with double the Quantity of Jesuits Powder, or the Bark, to turn off the Fits of an Ague or Intermitting Fever; and others again, mix This Root is both Purgative and Aftrin- the same with Ipecacuana, to cure a Loose-

> We fell the Root of a Plant which grows plentifully throughout all France, for white Contrayerva: It likewise grows in every Garden, and is known every where by the Name of Hirundinaria, or Celandine the greater. This is very white and delicious, and is call'd, by every Body in France, White Contrayerva, because it is pretended this has the same Virtues. There is a Composition of feveral Drugs in Mr. Charas's Dispensatory. which is call'd the Contragerva Stone, by reafon this Root is the Basis of the whole.

Baubin makes the Contrayerva a Species of Cypress, and calls it Long Lemer Cypress Sweet Root. You ought to chuse that which is found, new, aromatick, and sharp in Taste. It is an excellent Alexiplarmick, relifts Poison, and cures the biting of Vipers, other Serpents, or any venemous Beaft; and is good against Calentures, 'Mafles, Small-Pox, Spotted-Fever, Plague, or any malignant and pestilential Disease. Schrod fays it is good in the Plague, even when the Tokens appear: It resists Melancholy, cheres of little small Fibres round about them, of the the Spirits, and makes the Heart merry

a Dram to a Dram, or in any Cordial Draught or Bole.

2. Of Virginia Snake-Root.

THIS Snake-Root, which is call'd by some Dittany, by others, Contrayerva of Virginia, &c. is a Plant which grows there, and several other Parts of the and Pestilential Fevers, not only preventing Northern America, and which is us'd successfully by the English against all Sorts of Poi- curing the Disease after the Infection has fons, and the biting of venemous Creatures; feiz'd; for which Purpose, there is no Veand is also very proper against all Epidemi- getable, or any other Remedy that I know of, cal Diseases. Montieur D'Aquin, first Phy- equal to it, in the whole Course of Medicine. fician, made choice of this Root, as one of The Experience of this Part of the World the principal Ingredients in the new Reformation of Venice-Treacle, set down in Monfieur Charas's Royal Galenical and Chymical Pharmacopæia. As to the Goodness of this, you ought to chuse such as is fresh and new, the Root thick and well-fed, of a strong Smell, very much like Spike or Lavender.

There are several Kinds of this Lemery, Root, as the greatest, the less, and the least, together with Parkinfon's Polyrrhizos Virginiana: The least only is that which is fold in our Shops, which is a small fibrous or stringy Root, of a Kind of Ath-Colour, with a spicy or aromatical Smell, and a strong, hot, bitter Taste, and is brought to us from Virginia, Maryland, New Jersey, Pensylvania, and Carolina; but that which comes from Carolina, St. Augustines, and other the most Southern Places of the Floridan Con-Colour, clean and freeft from Dust and Sand, is one of the greatest Alexitericks in the World: fented to me by a Friend. It is known to cure the Biting of the Rattle-Snake upon the Spot, which, without this Remedy, is, for the most part, present Death. The Power, Malignity, and Volatility of the Poison, is not so swift and great, but the Subtilty, piercing Qualities, and Alexiphar-

It may be given either in Powder, from half tings of all other Serpents, as well as other poisonous and venemous Beasts whatsoever, and also the Biting of Mad Dogs, and Wounds made with poison'd Atrows, for which Things 'tis to be efteem'd as one of the most valuable Druggs yet discover'd.

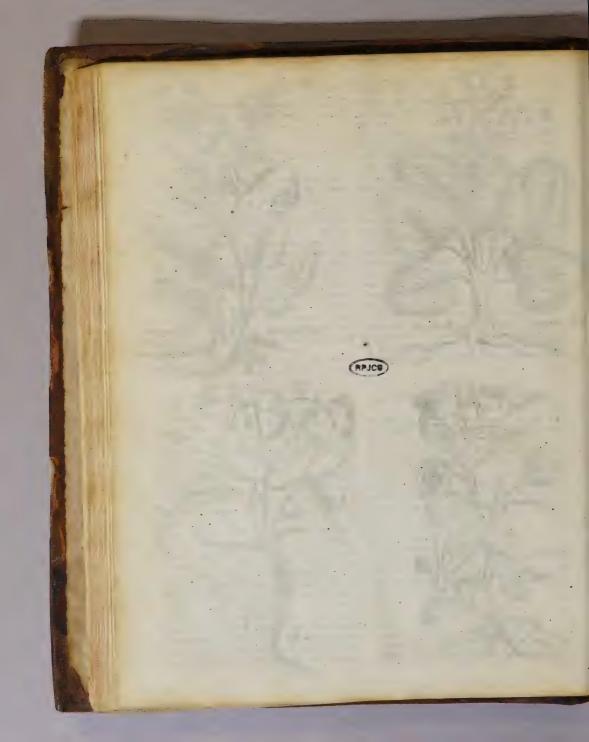
It is a known, and often-approv'd Remedy against the Malignity of the Measles, Small-Pox, Spotted Fever, and the very Plague it self, as also against all manner of Burning the Insection before it has spread it self, but may justly recommend the Virtues of this Simple every where, as good against Faintings, Swoonings, Sickness, and all Disaffections from the Heart. It is us'd in a Decoction by the Indians. We commonly give it in Powder from Six Grains to a Scruple; in an Infusion as strong as Wine, Brandy, or Water, will extract, from a Spoonful to four,

4. Of the several Sorts of Rhubarb.

THE Rhubarb of the Levant is the Root of a Plant, of which I Pomet. know not positively the true Place where it grows, any more than the Figure of the Plant: For this Reason I was oblig'd to take the Impression which is represented by tinent, is much the better, inasmuch as those Dodonaus, it not being possible otherwise to Climes are hotter: That which is clear in get the true Figure of the Leaves, and the Manner how they are dispos'd. For the Flowand very strong in the Scent, is the best. It ers, I have had a good Quantity of them pre-

Dalechamp, in the 558th Page of his Second Volume of the History of Plants, makes a large Discourse of this Rhubarb, and of the Place from whence it is brought to us; but he, and other Authors that write about it. fpeak so variously there is nothing to be demack Virtues of this Medicine yet exceeds it, pended on: But I shall give you an Account disappointing all the ill Effects of the Viperine of what was writ to me from Marfeilles the Poison, if given in due Time. And, without doubt, if it will cure the Biting of the comes from Persia, some say grows there; Rattle-Snake, the most malignant and dan- others will have it that it comes from the gerous of all Serpents, it will cure the Bi- 'Side of Muscowy; but the most common





e grows in, and is brought from, the King-

dom of Boutan.

This Root, newly drawn from the Earth, is thick, fibrous, blackish on the Out-side. and of a reddish Colour marbled within: It bears large and woolly Leaves, from whence arise little Carnation Flowers, resembling Stars; after which follow the Seed. Chufe your Rhubarb new, and that which is in small Pieces sticking together, pretty firm and ponderous, of an astringent Taste, and bitter, the Smell not disgustful, but rather aromatick, and of a yellow Colour, bright on the Out-fide, and something datker within; but fuch as, when infus'd in Water, will produce a Tincture like that of Saffron, and, when bruis'd in a Mortar, that the Colour within be of a lively reddift Cast.

Great Virtues are affign'd to this Rhubarb. especially for strengthening the Stomach, and purging the Gall with Pleasure, principally if affifted with any other Purgative. It is esteem'd likewise very serviceable for stopping of Bloody-Fluxes, and other Loofenesses, either chew'd in the Mouth, or grossly bruis'd, and infus'd in any proper Vehicle: It is also given to Children to destroy Worms; and, in short, is an admirable kindly and salubrious Medicine, as well in Age as Youth and the full Vigour of Years; in all which Difference of Age or Circumstance, duly proportion'd and apply'd, it works friendly to Nature, and efficacious to the Disease.

Of the American Rhubarb.

Within these few Years we have had several Sorts of Rhubarbs introduc'd into our Gardens, which Monsieur de Toisy, Vice-Roy of the Islands, brought from the West-Indies into France. It is from those Places this Rhubarb comes so large, that it approaches nearest to the true Roubarb of Persia: And I have been inform'd they draw fuch a Sort of Rhubarb from the Lands lying along the River Rhone, near Lyons: Several Roots of the same I have seen when cleans'd and dry'd, differing little or nothing from the true Rhubarb.

. Opinion is, that it grows in Persia. Mr. Ta- Pontick, by reason of their great Likeness; e vernier, on the other hand, affures us, in among others, Profper Alpin brought it from his Book of Travels, that the best Rhubarb the Indies to Padua, tho' there is a good deal of Difference. Upon the whole Matter, this Rhubarb is commonly in Pieces that are almost round; and, on the contrary, the Pontick is in long Pieces. And whereas this Distinction is known but to very few Perlons, those who bring this Sort of Rhubarb. wou'd impose it for the Pontick.

Monks Rhubarb, or that of the Mountains.

The Scarcenels of Pontick Rhubarb from the Levant, hath given leave to some to substitute in its room among those who have not a perfect Knowledge of the other, the Roots of the Hippolapathum, or Bastard Rhubarb, like the great common round Dock, which many People cultivate in their Gardens; or there's another Kind of Bastard Rhubarb, which has great Leaves, but less round. The Difference of these Rhubarbs are very considerable, for the Pontick from the Levant is yellow on the Infide, and streaked with red on the Outfide, and the Bastard Rhubarb is black and jagged on the Sides, and yellow on the Outfide without any Marbling.

Rhabarbarum, Rheum, in English Rhubarb, is a thick fungous Root Lemery.

which is brought to us dry'd from Persia and China where it grows, and sometimes from Turkey, which last is thought by the English Merchants to be the best of all, being a Sort of middle-fiz'd Pieces, smooth, freth colour'd, and of a mix'd yellow Oaker, of a lively strong Smell, firm in cutting, but not very hard, or crusty, being chew'd, 'tis of a bitterish subastringent Taste, giving the Spittle a fresh yellowish Colour, and a good Flavour, not very heavy, nor yet spungy, or hollow, or rotten within. The next Sort of Rhubarb is that which is suppos'd to be brought from Tartary, Muscovy, and Russia, which is generally large and heavy and more crufty, though many times very fresh and well scented, but nothing near so good as that brought from the Levant.

There are several Kinds of Rhubarb, as the True, the Pontick, and the B. ftard: The True is that we have already described by the Name of Rhabarbarum, the Word Rha some Several Persons take this Rhubarb for the will have to come from the Name of a

E 2

River

from the Arabian Word Raiwand; others say red, but that is the best which comes nearest it came from Barbarum, a City of India, a- to the true Rhubarb, which is the Mark of Dibove the River Indus, and that Rha Indicum and Barbaricum were all one. It is brought from China to Turkey, and so to Venice by Land; this lasts longer than what our Merchants bring by Sea, which corrupts fooner. It is a most admirable Purge, expelling sharp griping clammy and tartarous Humours from the Stomach and Bowels, it cures the Griping of the Guts, Collick and sharp Fluxes to a Miracle, so that it may be allowed to be one of the best Specificks in the World: It cures all forts of Fluxes whatever by carrying off the Cause, and therefore is good against the bloody Flux, Dropsie, Jaundice, green Sickness, Rickets, Melancholy, and other the like Diseases. It is given in Pouder from a Scruple or two to a Dram, and a Dram and half, or in an Infusion from a Dram to two Drams, corrected with Cinamon, and other Aromaticks, which may be quicken'd with Scammony, Jalap, &c. Schroder makes an Extract of it with Endive, Succory or Agrimony Water, acuated with some Drops of Oil of Tartar per Diliquium. Dose of this from a Scruple to a Dram. Likewise you have a Syrup of Succory with Rhubarb; Schroder fays, Rhubarb is the most us'd of all Purges, and without Danger in all Ages, it may be safely given to Children and Women with Child, and is best without Correctors, only two or three Drops of any of the Effential Oyls, as Anifeed, or the like.

of Pontick Rhubarb.

Some Authors will have this to be the same with the former, faving only the Climate and Place of Growth, which may something change its Form and Goodness; others will have it to be the longer and stender Part and Branches of the Indian Plant, because it is very like in Colour, Form, and Virtue to the true Rhubarb, others that it is the same Plant, but growing in Pontus, and that this has the longer and leffer Pieces, being not of so solid and firm a Substance as the true, which is bitter in Tafte, and of an aromatick Smell, being aftringent and corroborating after Purging. It comes from Russia and Muscovy, as also from the Straits out of Pontus and Turky. 12

River in Pontus now call'd Volga; others is of a fresh Colour, inclining to yellow and stinction you ought to chuse it by. The Virtues and Preparations are the same as the former, only this will admit of near a double Dose to the other.

Of Bastard Rhubard.

There are four several Kinds of this; 1st. Hippolapathum rotundifolium, or Bastard Rhubarb, which is the great common round leafed Dock, whose Root is greater than the Patience or Monks Rhubarb, and without many Branches or Fibres thereat, yellow on the Out-fide, aud somewhat a pale yellow within, with some discolour'd Veins therein, like to the true Rhubarb, but much less than it, especially when dry, it then quite losing its fresh Colour, which the true always holdeth. 2dly, Rhabarbarum Monachorum, Patientia, Monks Rhubarb, or Patience; this is the great Garden Dock, bearing the Name of Rhubarb for some purging Quality therein; this Root is long, large and yellow, like the wild Dock, but a little redder, and when dried, shews a lesser Stock of discolour'd Veins than the tormer.

3dy, Rhabarbarum Americanum, or Rhamericanum, West Indian Rhubarb, this is called by them Rhubarb, being very like to the East Indian Kind, as 'tis roundish, brownish on the Out-side, and reddish within, which being broke, has fome Whiteness mix'd with it, and being chew'd colours the Spittle yellow, like Saffron, and is bitterish withal. The Bastard Rhubarb has almost worn out the Use of the Monks Rhubarb, it is now grown fo common and plentiful; and it is indeed much the better of the two, though their Natures and Properties are much the same. the Bastard Rhubarb works more effectually,a Decoction thereof, or Infusion in Vinegar, eases Pains in the Ear, gargling with it relieves the Tooth-ach, and the internal Use of it is good in the Jaundice, Kings Evil, to provoke Urine, expel Sand and Gravel, open Obstructions of the Spleen and Liver. and cure Fluxes of all forts. Note, this Rbubarb is to be us'd in double the Quantity to the true Indian. 4thly, Rhabarbarum Album or Machoacan, of which I shall treat in its er and brisker. After the Resin, you may proper Place.

5. Of Jalap.

Pomet. Alap is the Root of a Plant of four or five Foot high, according to what the Sieur Rousseau and Father Plumier has said of it: The Jalap we now sell is brought to us from New Spain, to which Monfieur Tournesort has not long since given the Name of Solanum Mexicanum magno Flore Semine rugoso, Jalap existimatum, which signifies the Nightsade of America, with the large Flower, and wrinkled Seed, which is believ'd to be a Species of the Jalap.

Father Plumier will have the said Nightfloade to be the Belle de Nuie, because it entirely resembles that which we call in Latin Mirabilis Peruviana; this Plant is very common in our Gardens, and describ'd by Mr. Evelyn by the same Name, and because it only slowers in the Night, it is call'd Belle de Nuie, or the Beauty of the Night.

The Jalap fold in the Shops is brought from the West Indies, but great Quantities of it come from the Maderas, where it grows very common, without Culture. It is reckon'd an excellent Purger of serous and watry Humours, but must be given with Caution, according to the Age and Strength of the Patient, because it works very vigorously, if given in Substance; the ordinary Dose is from a Scruple to a Dram, but that is too large a Quantity for English Constitutions, for if it be good, it will operate sufficiently from half a Scruple to two Scruples, which will answer in the strongest Constitutions.

The Refin or Magistery of Falap is made with Spirit of Wine, and precipitated with Water, from whence proceeds a liquid Refin, white and gluey, almost like Turpentine, which after it is dried in the Shade, looks like common Resin; it has a fine Smell, like Scammony, and if rightly prepared, when thoroughly dry, is transparent and so brittle, that it will crumble betwixt the Fingers. This is more valuable than the Falap it self, by reason it is much more efficacious, and can be easier administer'd. The Dose is about sive or fix Grains either by it self taken in the Yolk of an Egg, or added in Bolus, Pills, or the like, to make other Physick work quick-

er and brisker. After the Resin, you may make an Extract by pouring on fresh Spirits of Wine, which will be of a brown Colour, and of the Consistence of Honey; this has the same Effects with the former, but in a less Degree.

Jalap, Jalapium, Gialapa, Ge- Lemery. lapo, &c. is a grey Root, full of Refin, which is brought from the West Indies, cut into thin Slices and dried. The Plant which grows from it when in the Ground, is according to Father Plumier and Monfieur Tournefort a Species of the Belle de Nuit. which the latter calls Jalap officinarum fructu rugoso, the Jalap of the Shops with the wrinkled Fruit. The Stalk grows four or five Foot high; the Leaves are very like those of Ground Ivy, but they are not so thick, the Flower is red as Scarlet, and sometimes changes to yellow and white, very agreeable to the Eye. This Flower blows in the Night. and closes again at the Approach of the Sun. and therefore is call'd Belle de Nuit, or the Night Beauty. Chuse such Falap as is in the thickest Pieces, streak'd with refinous Veins, hard to be broke with the Hands, but eafy to pound in the Mortar; of a grey Colour, the Taste a little acrid; it contains a great deal of Oil and Salt in it : Purges all Humours very well, but chiefly the watry, and therefore is useful in Dropsies, Gout, Rheumatisms, and for Obstructions. All the Names belonging to this Root are taken from the Indians. There are two forts of this Falap, to wit, a whitish, and a blackish or dark brown, which being broke shines a little : this blackish fort is much to be preferr'd, being refinous, and heavier than the other, the whitish has little Resin in it, and therefore not so good, and still less so, if Worm-eaten. It was unknown to the Ancients, not being long fince we had it from the West Indies.

6. Of Mechoacan.

Mechoacan, likewise call'd white Rhubari, Scammony, or Briony of America, is a light white Root, as well within as without, which is brought to us but in Pieces, from the Province of Mechoacan in New State, from which the said Root takes its Name. There is likewise a great deal of Machonian according to the Sieur Rousseau, in the Island

Earth, fending forth Stalks that bear thin flender Leaves like a Heart, of a whitish Green, after which grow little Berries, which are green at first, and turn red by Degrees as they ripen. The Mechoacan is a winding Creeper, and differs little from Briony, only in the Figure of the Leaves and in Taste, for the Root cur and dry'd cannot be diftinguish'd from that of the Briony, but that the Mechoacan is of a Tafte and Smell that is almost infipid, whereas the Briony has an intolerable Bitterness. We chuse the fairest Pieces of the Mechoacan that are white within and without, dry and ponderous, of an almost insipid Tafte, and throw aside that which is dirty, lean, thin and parch'd, and take Care there

be no Briony mix'd among it. The Mechoacan being pouder'd fine, is a gentle Purgative, and may be given in double the Quantity to Jalap, because it acts not with that Violence, and therefore may be administred both to Old or Young with Safety in Cachexia's, Scurvies, Jaundice or Obstructions, in Powder with any proper Liquor, or infus'd in Wine. It is a good Hydragogue, purging warry Humours from all Parts of the Body, chiefly from the Head, Nerves, Breast, and Lungs; it prevails against Catarhs, and the Venereal Disease, purges Slime from the Stomach, and is good to be given to Children against the Rickets, Kings Evil, running Scabs, and scald Heads. You may make a compound Extract of it thus, Take Mechoaean three Ounces, Ginger two, white Turbith one, Polipody of the Oak half an Ounce, make an Extract with Spirit of Wine, after due Digestion, decant or strain it off clear, and add two Drams of Manna, Spirit of Vitriol five Drops, Oil of Cinamon three, mix and make an Extract, whereof from half a Scruple to a Scruple, is

Of Briony, or the Wild Vine.

a good Dofe.

The Briony, or Wild Vine, is a Plant, if it had been sufficiently known, that wou'd have been fruitless to have spoke of; but many Authors make mention of it, as plentiful in every Hedge in the Country, but rarely to be found in our Gardens. Root of this Plant is so violent, that the Pea-

of St. Domingo. This Root stands in the sants call it the Mad Nip; which, if they havpen to eat thro' Inadvertence, it makes them frantick, and sometimes they run the Risque of Death it self: But being dry'd, it is of some Use in Physick, especially the great Compositions.

> The Sieur Mulhurin Sebille, one of the most famous Herbarists at Paris for many Years, affur'd me that the true Wild Turnip was the Briony, and that the Seed which was contain'd in the little dry'd Berries, was what was put into the Composition of the Venice-Treacle. Some will have it that the Briony was an excellent Remedy to cure the Biting of Serpents, and other venemous Creatures. This may be reduc'd into a Flower or Meal, when dry'd, as Almond Powder.

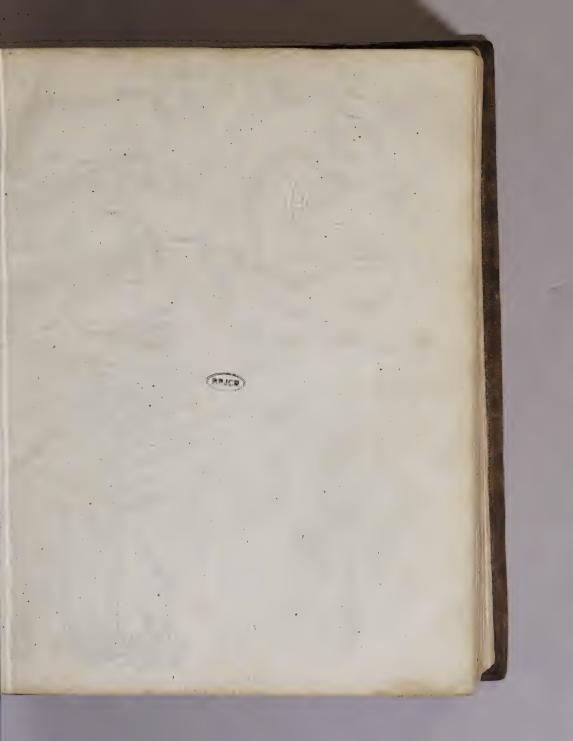
> > Of Briony, or the Black Vine.

There is yet another kind of Briony, call'd the Black Vine, which some have given the Name of our Lady's Seal. But as we never fell either of these two Sorts of Roots, I did not think it requisite to give you the Figures of them, and make a long Discourse upon them: But I shall inform you that the Root of this Black Briony, apply'd fresh upon Contusions or Wounds, stops the Bleeding, and heals the Part; so that it has obtain'd the Name of the Wound-Root.

Mechoacan, or Rhabarbarum Album Indicum, is a white light Root, Lemery. which we have brought to us cut in Pieces, and dry'd, from New Spain, and other Parts of America. This Plant is a Species of the Winding Briony, which Mr. Tournefort calls Brionia Americana repens folio angulofo, the creeping Briony of America, with a pointed Leaf, which is large, thin, and whitish. The Flowers produce no Fruit, but some small green Berries, which grow redder as they ripen; they contain in them a sharp pointed Seed, but are of no Use in Physick, nor any other Part but the Root.

7. Of Turbith.

THE Turbith, which the Latins call Turpethum, is the Root of Pomet. a Plant creeping the length of other Trees: The Leaves and Flowers of it are like those of Marsh-mallows; it runs upon





the Ground, after the manner of Ground-Ivy, grows near the Sea-Coaft about Surat, and other Parts in the East-Indies. This Plant is a Creeper, and twines or lastes it self round any Tree that is near it; bears a Carnation-colour'd Flower, like that of the Bind-Weed, from whence it is call'd by Mr. Paul Hermance, and in Mr. Ray's History, Convolvulus Indieus allatus maximus folio ibisco nonnibil simile Turbith officinarum; which signifies, the Indian Bind-Weed, with great Leaves like Marshmallows, which is call'd Turbith in the Shops. When the Flower is fallen off, there remains a Pod, in which is contain'd four black Seeds, half round, of the Bigness of Pepper.

The Sieur Hermance says that this Plant loves moist Ground adjacent to the Sea, and that he had this Account from Persons of Probity, in whom we might confide. We ought to chuse such as is well cleans'd, difficult to break, grey on the Out-side, and greyish within, ponderous, and not hollow, but full of Resin; and reject such as is white, subject to break, and Worm-eaten. Many People mistake, and use the Thapsia for the Turbith, which will be easily enough distinguish'd by what I shall say afterwards. The Resin of this is made after the same manner as that of Jalap.

Of the White Thapfia Turbith.

The White Thapfia, or Grey Turbith, is the Root of a Plant mention'd by feveral Authors, which has Leaves like the Fennel; after which grow Clusters of Flowers, like those of Dill, which are yellow, and the Seed large, approaching near to the Seed of Fennel-Giant.

This Plant is very little in Use, by reason of its violent Operation; and the Juice or Milk is so sharp, that it will take the Skin off the Face. The Root is seldom us'd, except by some Apothecaries, who make an ill Use of it instead of the true Turbith, tho' the Difference betwixt them is very considerable, for the Turbith is of a grey inclinable to red without, of a white greyish Cast within, very heavy, and hard to break; on the contrary, the Thipsia is light, wrinkled, of a Silver-Grey on the Out-side, and of a Taste so biting and hot, that it will blister the Mouth to touch it when new.

Of Black Thapsia.

There yet remains another Kind of Thap-fia, which is call'd the Black Thapfia; which is of no Use in Physick, by reason of its great Actimony, and therefore ought to be ranged among the violent and dangerous Medicines, on purpose that Apothecaries, and other Persons, may take Care how they use either of the two last-nam'd Roots instead of the true Turbith.

There are several Sorts of Turbith; as, first, the true Turbith, Lemery, call'd Turpethum Alexandrinum, and

Verum, also Turpethum Arabum, being the Places where it grows. This is the best Kind. and is brought to us out of Turkey, being large and gummy. In the Shops are the Bark and Root without the Pith, which is flicky. In the next Place, there is the Indian. of which Pomet speaks, which is a creeping Kind, and nothing near fo good as the former. Thirdly, the Pfeudo-Turpethum, or false Turbith, which is the Root of Scammony, and by some Men sold for it. Lastly, the Thapsia Turbith call'd Radix Thapsie, which is a little whitish, and not much unlike the white Dittany Roots, or smallest VVinter's Bark, brought to us out of the East Indies, and the Straits.

The true Turbith purges Flegm, and gross clammy Humours, and therefore is profitable in all chronick Diseases, as Gout, Dropsy, Jaundice, Leprofy, and the like: Being given alone, it is apt to cause loathing and vomiting, and therefore is corrected with Ginger, Cardamoms, Grains of Paradice, &c. It is given in Powder from two Scruples to four. but not to Children, or Child-bearing Women: In Infusion from a Dram to three fora Dose and the Exract may be made like that of Jalap. The Indan Turbith purges a little. but nothing to be compar'd to the former. and therefore it is but little in Use. The Pseudo Tupethum, or Scammony Turbith is a great Root, and in Bignels equal to the great Briony, as also in Tendernets, the outward Bark is of a dusky Colour, and it is white within, and the inner Pith being taken out, it seems in all Mens Judgments to be the same and the best allow'd Turbith of the Shops, but herein it differs from the true Turbish, for

that it is more brittle, and will more easily be broken; the Pith also in this Scammony Root is no less gummy, and full of milky

Juice than the true Tupeth.

The Thapfia Turbith, or Radix Thapfia is a thick Root, black without, white within, and full of a milky Juice, of a most bitter, sharp and loathsome Taste and Smell, so that it seems to be possest of a poysonous Quality : The French take this Root for a kind of Turbith, calling it Turpethum Cineritium, but 'tis faid that some of them have now lest the Use thereof, for that in purging it mightily hurts the principal Parts, causing often cruel Gripings in the Bowels, with Convulsions, and other ill Symptoms. It grows in Sicilia, Appulia, and in the Island Thapfia, whence as some think came the Name.

8. Of the Arabian Costus.

THE Arabian Costus is the Root of a Shrub very like an Eldertree, which grows plentifully in the happy Arabia, from whence it takes its Surname. Chuse the fairest heavy Roots of an Ashen not easy to break, of a strong Smell, aromatick Taste, together with a little Bitterness. The chief use of this Root at present is in the Composition of Venice Treacle, and others of that kind.

There are two forts of this Costus, the sweet and the bitter: the sweet Costus is a small Root, very like in Colour, Size, and Figure, to the Turmerick; but fince this at present is such a Rarity, and so little among us, I shall pass it by, and only speak of the bitter, which is here represented by the Fi-

gure.

The litter Costus, which some call by the Name of Costus Indicus, is a thick Root, very hard, of one Piece, shining, and rather looks like a Piece of solid Oak than a Root. This Costus is not so scarce as the other aforementioned; for the Mountaineers furnish us with it from Italyand several other Parts. Some will have this Costus to be the Costmary of the Garden, which the Botanists call Mentha Hortensis Corymbi-fera, which fignifies the Garden Mint that bears Clusters on its Tops; others will have it to be Dittany, and some tivated in the Western Islands is more us'd and

Euula Campana ; but in short, this Coffus grows in feveral Parts of the World, and in several Parts of the same Country, from whence it receives a different Figure, Colour, and Smell, according to the different forts of Soil by which it is nourish'd, as we may observe in Corn, Vines, and other Plants, which change their very Tafte and Virtue according to the Nature of the Soil in which they are brought up and cultivated, whether moist, dry, rich, barren, mountainous or plain.

Some are of Opinion there are Lemery.

not two feveral Species but only one of this Costus, the newest being sweet, and is call'd Costus dulcis, the same when it grows old, grows bitter, and then is call'd Costus Amarus; that which is good, is outwardly of an Ash-colour, inwardly white; and it is fresh, thick, well scented, aromatick in Smell and Taste, and not rotten: It is Stomatick, Hepatick, Histerick, Attenuating, Aperitive, and discussing, good against the Colick and Pally and most Diseases of the Nerves and Womb. Dose in Powder from half a Dram to a Dram, in Tincture from a Dram to two Drams: There is an Electuary made of it grey without, and inclinable to red within, call'd Caryocoftinum, ufeful for the Intentions aforesaid, and a chimical Oil which is profitable to be given in Clysters, in all uterine Cafes.

9. Of Ginger.

GInger is the Root of a Plant Pomet. which the Botanists call Arundo bumilis clavata radice acri, which is to fay, the small Club Reed with the sharp Root: It represents in Shape a fort of Foot arthe End of every Root, for which Reason the Inhabitants of St. Christophers, and the other Leeward Islands have call'd this Pate in French, or Gingembre, which fignifies a Paw or Foot. This produces several Reeds bearing large long green Leaves, and afterwards a reddish Flower, mix'd with a little green, the whole Head of the Flower resembling a Club, from whence it is call'd Ginger with the Club Flower.

This Root is brought to us sometimes from the East Indies, but that which is cul-

much better, because they dry it with more Care, so that it is not parch'd and wither'd; therefore chuse such as is new, dry, well fed, not easy to break, of a greyish Colour, resinous within, and of a hot piquant Taste, and reject that which is soft, spungy, white within and without, and that which is subject to be worm-eaten. Ginger is very little us'd in Physick, but instead of that, great Quantities of it are us'd by the Hawkers and Chandlers in the Country, who mix it with Pepper; they reduce it to Powder, and then call it white Spice, which in France serves for several Uses.

of Candied Ginger.

The West Indians candy their Ginger when it is taken from the Earth, and likewise they make a Preserve of it green, as the East Indians do, from whence we have great Quantities of green Ginger: The English, Dutch, and most of the northern People make use of this to warm the Stomach, as well as to affist Digestion, to correct the Scurvy, or any ill Tastes in the Mouth, to which those Nations are very often subject.

Of Zerumbeth and Zedoary.

These are two Roots of different Colour and Figure, which come notwithstanding from the same Plant, and the Leaves are the very same with that of Ginger, for which Reason some call it wild Ginger. Both these Roots are brought us from the East Indies, and the Isle of Se. Lawrence, where they grow in abundance.

The Zerumbeth is the round Part of the Root which we receive cut in Pieces like Falap, grey without, and white within, hard to break, not carious, of a warm aromatick Tafte. The Zedoary is the long Part of the Plant, ferving as a Root to the Zerumbeth, it is about the Length and Thickness of one's little Finger, of a whitish red Cast without, and white within, well fed, heavy, and not apt to break, without Worm-eating, of a warm, aromatick Taste like that of Rosemary. The Zerumbeth is of little Use in Physick; on the other hand, the Zedoary is esteem'd a good Cordial, and of great Essicatory against all Venom and Contagion.

the white or meally, and the hard black, but the first is reckon'd by much the best: It grows both in the East and VVest Indies, and is very much cultivated at present in the Isles of the Antilles, but the greatest Quantities come from the Leeward Islands, Barbadoes, Nevis, St. Christophers, &c. as likewise from Famaica and other Places thereabouts. We have now little out of the East Indies, but what is brought thence in a Confection, call'd Green Ginger: It is very warm, attenuating, inciding, aperitive, and highly ftomatick and alexipharmack; gives Ease in the Colick, expels Wind, and is an excellent Antiastmatick, made into an Electuary with Honey, or its own Syrup: It creates an Appetite, refifts Purrefaction, expels the Plague, Poison, and all manner of malignant and pestilential Diseases: It may be used in Powder grated or pounded, from half a Dram to a Dram, or candied to an Ounce. Green Ginger which they prepare in India, is like-

wife made in England and other Parts after

this manner: Let the fresh Root soak two or

three Days in warm Water, keeping it in a Balneo all that time, fo it will grow foft and

swell, then boil it up either slit or whole with resn'd Sugar to a Syrup. The Candied

Ginger is made by steeping the Roots in warm Water, then cutting them into long Pieces,

There are two kinds of Ginger.

dry them, after which candy them. A Laxative Confection of Ginger, uleful for cold Constitutions, to purge off watry and flegmatick Humours is made thus. Take Ginger two Drams, Cinamon, Cloves, of each a Dram Nutmeg, Saffron, Galingal of each a Scruple, Turbith half a Dram, Diagridium three Drams, Sugar four Ounces, mix and make a Comfect. Dose from two Drams to half an Ounce. Another Confection to revive and fortifie a weak and cold Stomach: Take Ginger in Powder fix Drams, Cinamon two Drams, Nutmegs, Cloves, Mace, Saffron, of each a Dram, Pistachia Nuts one Ounce, fine Sugar a Pound, dissolv'd in Rose-water, then mix all, and beat it up to a Confistence, of which take the Quantity of a Walnut

10. Of Florentine Orrice.

Plant, whose Leaves are long, erect, and of a fine beautiful Green, after which grow white Flowers, as I have been affur'd by Mr. Morin, Physician to Madam the Dutchess of Guise, a Man of great Probity, and large Experience in Simples.

This Plant is known in France by the Name of Blew-flower-flag, Flower de Lys, &c. which grows almost every where by the Walls, Water-fides, and in the Gardens, and of which there are several forts, which several Authors have taken Notice of ; as to the Orrice, or in Latin Iris; they fay there are Flowers of it of various Colours, which resemble in some kind the Rainbow, which is call'd Iris. Chuse such of this Root as is large, well fed, of a Piece, clean, white within and without, difficult to break, of a sweet Smell like the Violet; but cast by such as is bad, being lean, dry, and of no Smell, likewise fuch as is soft, or Worm-eaten.

The Diers, Perfumers, and Confectioners use this in their several Trades to give a grateful Scent to their feveral Cloths, Perfumes, Comfits and the like. It has a great many other good Qualities, and is of some small use in Medicine, being employ'd in several Galenical Compositions, and is a mighty Favourite with the Fair Sex. There is a green Colour made of it, to which they give the Name of Verditer, which is us'd by the Painters in Miniature. This Verditer is made several ways, as is describ'd in a little Treatise of Miniature, which those who desire to make, as well as Carmine, and other fine Paints, may have recourse to.

This Orrice call'd Iris Alba Florentina, or Ivis major Alba, illyrica vulgo, vel potius Flerentina, is a white Root, the Thickness of a Thumb, oblong, which is brought to us from Florence, where it grows without Culture ; the Stalk is like that of the Flower de Luce, but the Leaves grow erect, and the Flowers are white. This Root when in the Ground is deck'd with feveral Fibres, which are cut off with the Our fide, which is reddish, and then it is dried.

The Illyrick fort of Orrice is reckon'd the best, but the Roots of both are us'd; that brought from Florence is plump, round, and of a delicate fragrant Smell like Raspberries. Pomet. T'Lorentine Orrice is the Root of a It is Pectoral, and very good against Stoppages in the Breast and Lungs, prevails against Coughs, Afthma's, Obstructions of the Terms, Gripings of the Belly, Pain in the Stomach, Wind, stinking Breath. It is us'd outwardly in sweet Powder for the Hair, and in Damask Powder, and Cypress Powder. It may be given in Powder, Tincture, Extract, Species, or the like Form, from a Dram to two Drams.

11. Of Great Galingal.

THE great or large Galingal, which some call amiss the Acorus verus, or true Acorus, is the Root of a Plant or Reed, whose Leaves are like the Orrice, which grow plentifully in the Isle of Fava and in China. Make choice of the largest, heaviest Root, reddish without, and whitish within, of a warm, piquant Taste, and afterwards a little bitter, but throw away that which is almost insipid, or very old. This Root is of no other Use when dried, than for the Vinegar-makers, who use it instead of the less fort for the making of Vine-

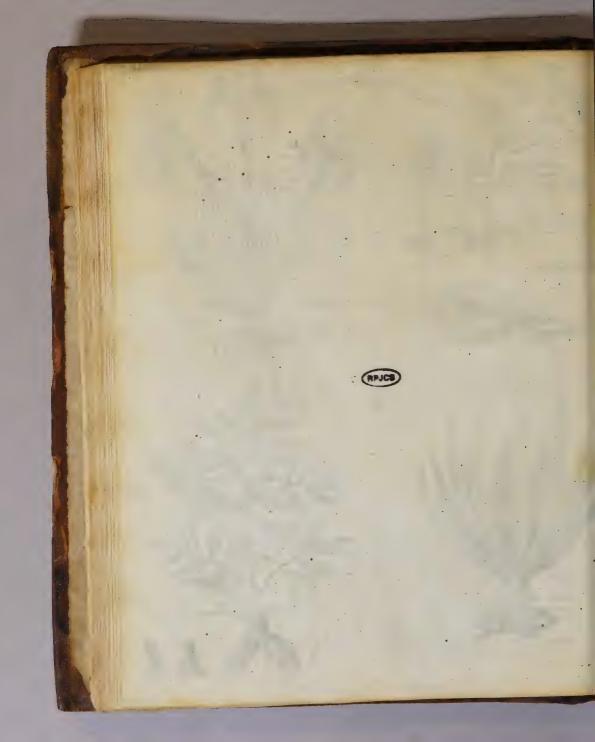
Of the Small Galingal.

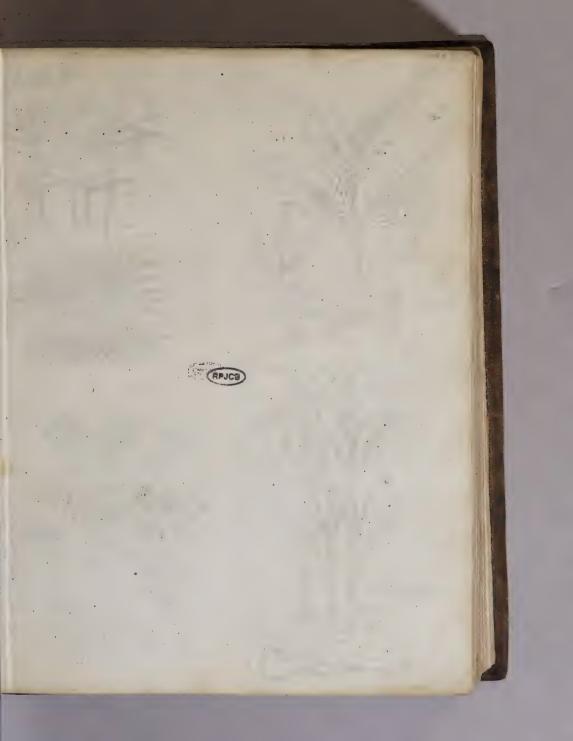
The Small Galingal is a reddish Root within and without, of a piquant Tafte, and very aromatick, which comes to us cut in Pieces from the Indies and China: This Root bears its Branches almost like a Shrub, and the Leaves much resemble those of Myrtle. Chuse fuch Roots as are best fed, of the highest Colour, and when chew'd is of a biring, aromamatick Tafte, and take care there be no large Pieces mix'd, which is eafily known, because the Small Galingal is no thicker than a Man's little Finger, of a more lively Colour, and hotter Tafte than the larger Galingal. The smaller fort is much more used in Physick than the greater, because it abounds with more Virtue. There are two forts of Galingal,

brought to us from the Indies; the Lemery. the first is call'd the Great, and is

a folid









bitter Taste. 'Tis a fort of Species of the Reed, the Leaves like Orrice, the Flower white without Smell, the Seed small, and the whole of little or no Use in Physick.

The fecond fort is the little Galingal, whose Root is about the Thickness of a Finger, cut in Pieces on purpose to dry, that it may be fitted for Sale; it is hard, reddish without and white within, and of a Tafte and Smell much stronger and more aromatick than the large Galingal. It is Cephalick, Stomatick, Neurotick, Histerick, and Antispasmatick, sharp tafted, attenuating, opening, discussive and prevalent against most Diseases of the Head, Brain, Nerves, Womb, Stomach and Bowels. It is good against Megrim, Head-ach, Palfy, Cramps, Convulsions, Obstructions, Colick, Indigestions, want of Appetite, Cachexia, Scurvy, &c. You may use it in Powder, Tincture, Extract, or candied like Ginger. Dose two Drams or half an Ounce.

12. Of Turmerick.

Turmerick, which some call Curcuma, and others Saffron, or Cypress of India, Malabar, or Babylon, is a Root which is yellow quite thro', and produces very large green Leaves; the said Root fends forth Flowers, which grow like Ears of Corn, as may be feen by the engrav'd Figure which is in Mr. Hermance's Book. This little Root is almost like Ginger: It is brought to us from several Parts of India, by the Company of Merchants trading thither, and likewise great Quantities of it comes from the Isle of St. Lawrence.

Chuse your Turmerick large, fresh, resinous, hard to break, and rather heavy than such as is worm - raten, or inclinable to be rotten: There are a great many Persons about Paris who ask for the Red Turmerick, as believing there are 2 forts, when in Reality it is nothing but the Age of it that turns it brown, which when it is powder'd shows more red, according as it is older or newer. This Root is chiefly us'd by the Dyers, Glovers, and Perfumers: The Founders imploy it to tinge their Metals,

a folid, heavy Root, cover'd with a reddish of Gold. The Indians use it to tinge and Bark, white within, of an acrid, and fomething give a yellow Colour to their Bread, or other Things, as we do Saffron.

of Round Cypress.

This Cypress commonly call'd Round Cypress, or English, or Flemish Cypress, is a Root full of little Knots or Specks, of a brown Colour without, and gray within, of a lit-tle Sharpness in Taste, and almost without Smell when it is newly taken out of the Ground. This Root grows in the Water, and along Banks and River-fides, bearing triangular Stalks, folid, fmooth, and full of a thousand long upright Leaves, the Flowers are small, reddish, and come by Ears or Tassels on the Top of the Stalks. Make a Decoction of this Root bruis'd in white Wine, and after it is strain'd, drink the Wine as hot as possible. 'Tis an approv'd Remedy to cure the Colick.

Of Long Cypress.

Long Cypress, call'd by some wild Galingal, is a knotty Root, wrapt round with fibrous Strings, not easy to break, of a brown Colour without, and grey within, of a pleafant Scent, especially when fresh, and well dried. This Root grows by Rivulets, and other watry Places, as Ditches and the like; it bears green Leaves which are like those of the Leek; the Stalk and Flower very much resemble the round Cypress: It is of some Use in Physick, but much more to the Perfumers and Glovers.

Terra Merita, or the Curcuma of the Shops is a small Root, about the Size of that of Ginger, hard, as if it was petrefied, yellow without and within; it grows in many Parts of the East Indies, from whence it is brought to us dried. The Plant is call'd Cyperus Indicus, and Crocus Indicus' or Indian Saffron. The Leaves are like the white He'lebore, but not so much strip'd, but smooth. The Flower is of a fine beautiful Purple, which is succeeded by a Fruit which is hairy like the green Chesnut, and which contains a Seed made round like a Pea, which is very good to eat, when it is boil'd with Meat. The and the Button-makers to rub their Wood Root is yellow like Saffron, and the Indians with, when they wou'd make an Imitation use it to colour their Rice, and several other

forts of Provisions: It contains a good deal lected, and the Roots which are fold, come of Oil in it, as well as fix'd and effential from Provence or Languedoc. Chuse such as Salt: This Turmerick is aperitive, deterfive, is new, the fairest red Root without and withproper to relieve Obstructions of the Liver and Spleen, to provoke Urine, and Womens a very disagreeable Taste, attended with Courses, and good in the yellow Jaundice, great Acrimony: This small Root is ve-Stone and Gravel, either in Powder or De-ry little us'd in Physick, but there is an Ex-

Cyperus, in French Souchet, in English wild Galingal, is a Plant whereof there are several kinds, but I shall only speak of two; and first of Mr. Tournefort's Cyperus rotundus vulgaris, or the common fort, which is call'd the round fort, whose Leaves are long, with the three corner'd Stalk, and Flowers on the Top like a Plume or Nolegay; after the Flowers are gone, on the Head of every Stem, comes a triangular, hard, black Seed: The Root is as thick as an Olive, of an oblong Figure, grey Colour, weak Smell, sweet

Tafte, and a little aftringent.

The second kind is by Mr. Tournefort called Cyperus odoratus radice longa, sive Cyperus Officinarum. The sweet scented Cyperus with the long Root, or that of the Shops: It bears Leaves like those of the Reed, and refembles in some manner the Leek, but much longer, much slenderer, much harder; the Stalk grows two Foot high, straight, without Knots, triangular, full of white Pith, bearing on their Tops large reddish Clusters, with a Seed like the former fort, as the Virtues are in like manner: Both long and round being ns'd to one and the same End and Intentions; the round is esteem'd the best, but some think the long to be full as good: They cure a stinking Breath being chew'd in the Mouth; boil'd. in Oil, and bruis'd, and laid to the Reins or Groin, they provoke Urine; they are stomatick, hepatick, uterine, and nephririck; help a weak Stomach, cause a good Appetite, and Digeftion, expel Wind in the Bowels, and corroborate all the internal Parts, may be given in Powder, Tincture or Decoction. Dole from half a Dram to a Dram.

13, Of Spurge.

ESULA, or Spurge is: a fmall red Root, which produ-Ges. very narrow, green Leaves, full of Milk; this Plant grows every where in France neg- Places, in the Fields and Hedges, and flowers in

in; which being held in the Mouth, affords tract made in all our Dispensatories, which is

appropriated to hydropick Cales.

The Efula or Spurge is a kind of Lemery.

Tithymal, or a Plant which bears many Seems of about a Foot high, carrying straight, narrow Leaves, like those of the Pine, fill'd with Milk; the Flowers are small and graffy, the Root little and red; this grows in Fields, Lanes or Gardens, and abounds with an effential, fix'd, acrid Salt, as well as Oil. 'Tis rarely us'd in Medicine, because it purges violently, excep in some desperate Cases, as Dropsies, Lethargies, Frensies, &c. There are several forts of this Plant, all which have the like Qualities, but that which bears Leaves like the Pine is esteem'd the best. It is a sharp, fiery, corroding Medicine, and reckon'd so dangerous as not to be us'd without correcting, which is chiefly done by steeping it in Vinegar, or by adding Bdellium, Tragacanth, or Mucilage of Fleabane-seed to it. There is the greater and less fort, both which grow in most Parts of Europe. They purge Flegm downwards, for which they have been accounted wonderful Secrets in some deplorable and suppos'd incurable Cases. There is an Extract to be made of it, which fome have us'd as a kind of Panchymagogon, or general Purger.

Of Cinquefoil, or Fiveleav'd Grafs.

The Root aforegoing has given me Pomet. an occasion to mention another Root in Figure and Colour very like the Spurge, which . the Greeks call Pentaphyllum, the Latins Quinquefolium, and we Cinquefoil, by reason this fmall Root produces its Leaves by five and five on a Stem, or Wire, by which they run like Strawberries, and are very common in every Field. The Leaf is more abundantly in use than the Root of this Plant, only that it is us'd in the great Treacle.

Cinquefoil is so well known it needs no Description: It grows in sandy

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ing and antifebrifick is us'd in the Shops, and given from a Dram to 2 Drams in Powder, in all Respects just as you give the Cortex to cure Quotidian, Tertian and Quartan Agues. It stops Fluxes of the Bowels, Catarrhs, or Defluxions upon the Lungs,, Coughs, Colds, Gout, Whites or Gonorrhea in Men and Women, Sharpnels of Urine, &c. An Infusion of it in white Wine, is profitable for the Rickets in Children, Obstructions in young People either of the Spleen, Liver, or Menses, and to cure the Jaundice. Dose four or fix Ounces; it may be likewise taken like an Infusion of the Bark, and to the same Purpoles,

14. Of Tithymal.

HE Tithymal, which the Latins call Thymelaa, because this Plant has small Leaves like Thyme, is a light Roor, of a different Thickness and Length, reddish without, and whitish within, woody and fibrous; of a sweet Taste in the beginning, but after it has been chew'd in the Mouth a little Time it is caustick, and burns like Fire, especially when it is fresh.

This Plant produces green Leaves, thick and claimmy, like those of the Olive, with Fruit of the Size of Pepper, green at first, and of a beautiful red when ripe, which the Latins call Coccus Gnidius, or Granum Gnidium, the Scarlet Berry. The whole Plant is very little in use except tometimes that it is applied to the Head, to draw off sharp Humours that fall upon the Eyes, and a little Piece of it put into the Ear, serves for the fame purpole; that which comes from Languedoc is to be preferr'd to that brought from Burgundy.

The Thymelæa foliis lini, of Mon-Lemery. fieur Tournefort, or Tithymal with Linseed Leaves, is a little Shrub whose Trunk is not above the Thickness of a Thumb, divided into several Twigs or Branches of about a Foot and a half, with fine small Leaves, like those of Linseed, but larger, greener, and more viscous; the Flowers grow on the Tops of the Branches, collected together in several little white Clusters : After that comes a round fleshy Berry, like

May and June. The Root which is dry, bind- that of Myrtle, full of Juice, which is red when ripe, and call'd Granum Gnidium. This Fruit contains an oblong Seed, cover'd with a black shining Skin, very brittle, having a white Pith, of a hot fiery Tafte. The Root is long, thick, hard, woody, grey, or reddish on the Out-side, white within, sweetish at first tasting, but very caustick and biting afterwards, abounding with a great deal of acrid Salt, and fix'd Oil.

Of the Wild, or Baftard Vine.

'Tis but a few Years ago fince this Pomet. Root so nearly resembling that of the Tithymal, only that it is blacker and harder, was known at Paris: The first who introduc'd it there, was Monsieur Amelot, Ambassador in Portugal, and after him Mr. Tourneforte, who gave me a Piece, the Figure whereof is here represented, and some Persons have assur'd me that the faid Root, as it grows in the Ground, shoots forth Branches charg'd with Leaves, altogether like the Vine which creeps along Walls, and upon Trees.

Tis upon this Account that the Portuguese, who first brought it from Mexico, gave it the Name of the Pareira Brava, which fignifies Wild, or Bastard Vine. Mr. Amelot, Mr. Theward of the Faculty of Physick, and some others have recommended it as a Specifick for the Cure of the Stone, to be taken in Powder in a Morning fasting in white Wine. For Choice of this, Mr. Theward thinks that of Mexico, to be much better than that which comes from Portugal: And by a Letter which I receiv'd from Lisbon the 16 of October, 1692, it is observ'd, that the Pareira Brava which comes from the Indies and Brafil, is a Root as commonly known as the Ipecacuana, and almost as much us'd by the Apothecaries of that Country, but the Quantity is not fo great : It is fold at ten Testons, which is about five Livers French Money a Pound.

15. Of White Hellebore:

1/1/ Hite Hellebore, call'd in Latin . Pomes. Weratrum Album, is a Plant Former, which grows on the Mountains of Dauphine and Burgundy, whose Root is whire, with many long fibrous Strings of the fame Colour.; at first, and of a yellowish Red afterwards, the Stalks which are hollow, bear a great many little Flowers like Stars. We ought to chuse such Roots as are fairest, full of Filaments, or Fibres, yellow without, and white within of an acrid ungrateful Tafte; some value those Roots which are freest from Strings, but I cannot be of their Opinion, especially if it be to be reduced into Powder.

Of Black Hellebore.

This is a dark, brown Root, full of small Fibres, black on the Surface, and grey within, from whence arife green Stalks, adorn'd with Leaves of the fame Colour, indented and Carnation Flowers like a Rose. Make your Choice as before directed: This is of much greater Use for internal Medicine than the last.

The Veratrum flore subviridi of Tourneforte, or the White Hellebore Lemery. rifes on a Stalk of two or three Foot high, round, ftraight, hollow, furrounded at the Bottom with abundance of Leaves like Gentian, but much larger, more stringy, ftrip'd and plaited lengthways, foft and a little hairy; the Leaves which arise pretty high on the Stalk, are a great Distance from one another. The Flowers grow on the Top, rang'd like long Ears, of a whitish green Colour, each of which is compos'd of feveral Leaves, dispos'd like a Rose, from whence a Fruit succeeds, in which are contain'd longish, white Seeds, almost like Corn. The Root is a thick, white Head, furnish'd with a great many long Fibres of the same Colour.

The other fort is the Black Hellebore, call'd by Mr. Tournefort Veratrum flore atro rubente, it affers from the former, in that the Leaves are much narrower, folding about the Stalks, and that the Flowers are of a brown, or dark red Colour. Both one and the other kind grow in mountainous and wild Places, especially in the hot Countries. No Part is us'd in Phyfick but the Root which is brought dried from Dauphine or Burgundy; it contains a deal of Volatile Salt, and essential Oil in

upwards and downwards, and is faid to cure pion; this Plant grows on the Mountains of

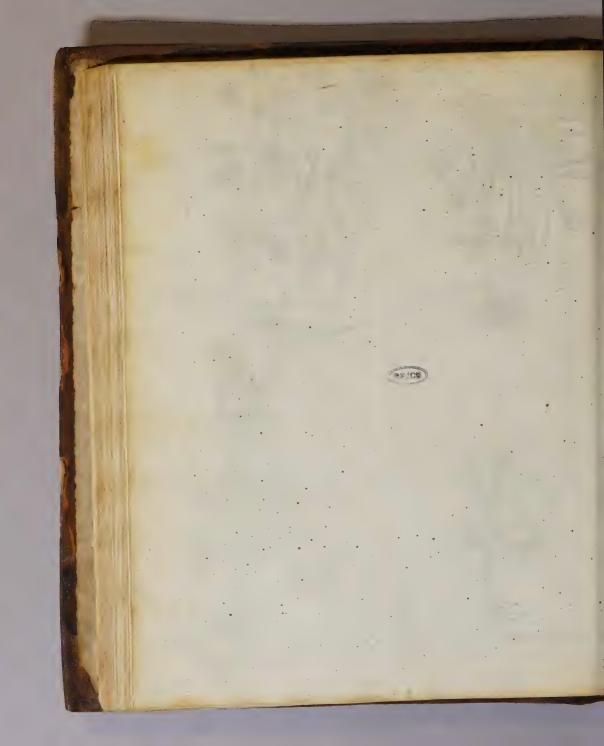
lour, the Leaves of the Plant are large, green all Diseases proceeding from Melancholy, as Disaffections from the Hypochondria Elephantiasis, Herpes, Cancers, Quartans, and all Diseases of the Head and Brain, as Epilepsies, Apoplexies, Lethargies and Madnels, for which all Authors have held it a Specifick: It enters into the Composition of Matthews excellent Pill, andmay be given in Powder alone to a Scruple: it likewise mixes well with the larger purgative Compo-

16. Roman Wolfsbane.

THE Doronicum Romanum we call Wolfsbane, is a little yellow Root without, and white within, of a sweet-ish astringent Taste, attended with a little Viscosity: We have this Root brought to us cleans'd from its Strings, from the Mountains of Swifferland, Germany, Provence, and Languedoc. This Root when it grows is of the Figure of the Scorpion's Tail, from whence arise large Leaves, something resembling wild Cucumber, or Plantin; this is the Reason why it is call'd Aconitum pardalianches Plantaginis Folio, or Panthersbane with the Plantain-leaf. Chuse the fairest Root, and not fuch as is inclinable to be Worm-eaten. well tafted without, and when bruised, of a good white Colour: It is believed that this being chew'd in the Mouth, becomes an Antidote for Men, which on the contrary is a mortal Poison to all Quadrupeds. It is Cephalick, Cordial, and Alexipharmick, refifts Poison, is good against the Biting of venemous Creatures, and cures the Palpitation of the Heart.

The Doronicum Romanum of Gefner, or that which Tournefort calls the Doronicum radice Scorpii, the Wolfsbane with the Scorpion Root, is a Plant which bears large Leaves, Swallow-tail'd, green, woolly, and very like the Cucumber, but much less and softer; the Stalk is above a Foot high, something lanuginous, round, divided at the Top into feveral small Branches, which bear yellow radiant Flowers, like those of the Chrysanthemum, or Sun-flower; those are succeeded by little, thin, black Seeds, each one having The Black as well as White Hellebore purges a spiral head; every Root resembling a Scor-





proper Counter-poilon, good to fortify the Spirits, and drive away malignant Diseases by Perspiration, and to expel Wind, in hy. pochondriack, colicky Difaffections.

17. Of the Greater Thora; or Panthers-Bane.

HIS is a kind of Plant which grows no where but on the high Mountains, and is called Aconitum Pardalianches, seu Thora major, VVolf or Panthersbane ; it is a Root divided by Lumps or Clods, like the Ranunculus. The Leaves are almost round, closed, endented about, and neatly supported by their Stalks, which are not above seven or eight Fingers Height, branching out to the Tops, and adorn'd with certain yellow Flowers compos'd of four Leaves, by which they produce a small Bud, like the Ranunculus, and the Flower brings forth flat Seeds as that does. The Juice of this Plant is used to poison Flesh with, for the Destruction of the Wolf, the Fox, and other ravenous Beafts.

This Plant is called Thora, which fignifies Corruption, because it is venemous: According to Tournefore, it is the Ranunculus Cyclaminis Folio, Afphodeli radice. This is a kind of Ranunculus, or a Plant which from the Root produces two or three Leaves that are almost round. like those of the Cyclamen, but near as big again, indended on the Sides, fibrous, tied by Stalks, which bear them about half a Foot high or more: The Flowers grow on the Top like a Rose: The Seed is Swallowtail'd and flat, the Root is like the Asphodel, and yields a great deal of acrid, corrofive Salt and Oil.

Of the Anthora, or Healing Wolfsbane.

The Anthora, according to Mon-Pomet. fieur Tournefort, is a Plant something scarcer than Gentian, and is a Species of the Aconite, though this is a Counter-poison to such as eat the Root of the Aconite, or deadly Wolfsbane, It is for this Reason Baubinus

Swifferland, near Geneva, and several other calls it Aconitum Salutiferum, the Healing Parts of France, Germany, &c. from whence Aconite, or Anthora. This is compos'd of these Roots are brought dried to us. It is a two short wedge-like Roots, very bitter. white and fleshy within, but brown on the Outside, and deck'd with abundance of Fibres. The Stalk arises about two Foot high, furrounded with many long Leaves: the Flowers grow about the Stalk, like an Ear of Corn, they are yellowish, and like a Head cover'd with a Helmet; the Seeds are black, wrinkled, and grow in Sheaths, or membranous Cells, five or fix of them join'd together. The Root of this is a good Antidote: The Peasants who gather this on the Alps and Pyrenees, use it with Success against the Biting of mad Dogs, and to cure the Colick; they take it for a sovereign Remedy for those who have eat the Thora, or deadly Aconite.

> The Aconitum Salutiferum, or Anthora, quasi Antithora, because this is reckoned a Counterpoison, to that call'd the Thora, which is a fort of Ranunculus, or Crowfoot. This Anthora is of the Species of the Aconite or deadly VVolfsbane, as describ'd fully before by Pomet. The Root is useful in Physick, as being Alexipharmack, Cardiack, Stomachick, and good against the Wind Colick; it contains a great deal of volatile Salt, and effential Oil.

18. Of Angelica.

ANgelica is a Plant which grows plentifully in Bohemia, Spain, Italy, France, England, and most Parts of Europe; and is so well known, it would be needless to describe the Plant; the Seed is us'd much to make Angelica Comfits, and the Stalk makes a very good Sweetmeat candied. The Root is feven or eight Inches long, of an odoriferous Smell, and aromatick flexible, and if new and fresh, breaks white within: It grows in all our English Gardens, yet notwithstanding some is brought us from Spain and Germany; sometimes this Root is deceitfully mixed with Ateum, or Spignet, which break of a browniff yellow within. It is Cordial, Bezoartick, and Alexipharmack, Heats, drys, opens, attenuates, and causes Sweat, resists Poison, and cures the Bitings of venemous Creatures. A Spirit of

a Miracle; the Chymical Oil operates more powerfully than any of the former, to all Intentions; besides which, it provokes the Terms, expels the Birth, refifts Poison, helps Suffocation of the Womb, cures Palfies, Apoplexies, Convultions, Cramps, and Rheumarisms.

This Root whose Plant is so vulgarly known, grows best in a fat Lemery. Soil, where the Ground is full of Moisture; it is brought ready dried to us from several Parts, but the best is that from Bohemia, and then what is brought from England; of a sweet Smell, and aromatick Tafte, that overcomes the bitter, being loaded with a highly exalted Oil and volatile Salt. It is cordial, stomatick, cephalick, aperirive, sudorifick, vulnerary, resists Poison, is us'd in the Plague and malignant Fevers, and for the Biting of mad Dogs.

19. Of Masterwort.

IMperatoria, Magistrantia, or Masterwort in English, is the Root of a Plant which has large, green, indented Leaves, after which grow Clusters of white Flowers, succeeded by a fort of small Seed, which is faid to be like the Sefely of Marfeilles. Chuse such Roots as are fair and fresh, hard to break, of a brown Colour outwardly, and greenish within, of a strong Smell, and aromatick Taste: Those that grow in Auvergn and other mountainous Parts are preferr'd to those of the Garden. The same Virtues are ascrib'd to this as were to Angelica, which gain'd it as some pretend, the Name of Imperial Wort, not because of its rare Qualities, so much as because an Emperor was the first who discover'd it.

Master Wort, Imperial VVort, or Lemery. the Imperatoria major of Tourneforte, is a Plant whose Leaves are large, rang'd three and three along the Side of the Stalk, ending in a fingle Leaf; they are stiff, hard and divided each into three Parts, indented on one Part lightly, on the other deep. They rife among the Branches all along, which mount about two Foot high, dividing themselves into Wings, which carry upon their Tops Clusters of Flowers of five Leaves

it chears the Heart, and revives the Spirits to form'd into a Rose, succeeded by little Seeds, which are flat and almost oval, little larger than those of Dill; streak'd lightly behind, and of a white Colour. The Root is sometimes of the Thickness of one's Thumb. wrinkled hard, and entangled in Fibres, filled with a white, aromatick Substance, of an acrid piquant Taste, hot in the Mouth, and a little bitter.

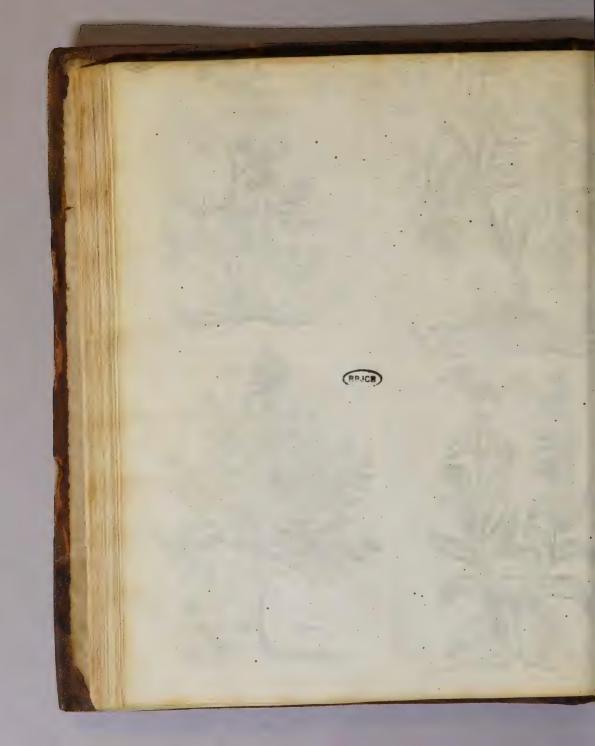
This Root being hot and dry, attenuates, opens, digests, strengthens, is tudorifick and alexipharmack, is used against Poisons, malignant and pestilential Diseases; causes Expe-Ctoration, cures a stinking Breath; relieves Diseases of the Head, as Vertigoes, Apoplexies, Palfies. A Decoction of it in Wine us'd as a Gargle, cures the Toothach, drys up Rheum and Catarrhs, and is good to bath with in the Gout : A Saline Tincture is much better than the Decoction, to cure the Irch, and dry up scabby and scald Heads: An Ointment made with Hogs Lard and Turpentine, heals old Sores, Ulcers, and all foul leprous or malignant Scabs.

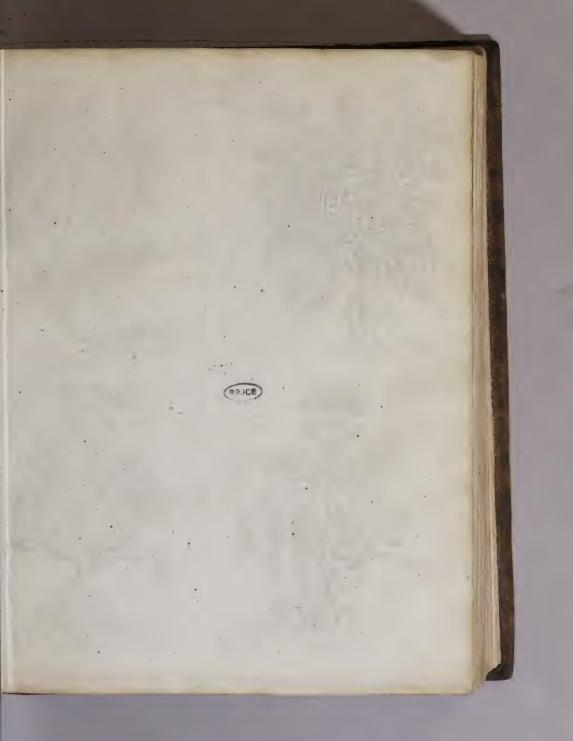
20. Of Gentian.

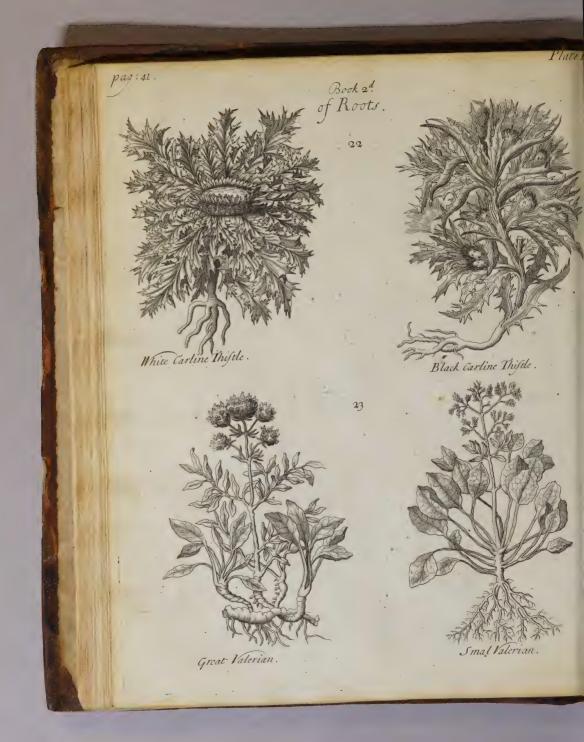
Entian is a Plant so called from King Gentius, who first discovered its Virtues. It grows plentifully about Chabli in Burgundy, and other moist Places in feveral Parts of France, especially about the

Pyrenees and Alps. The Root which is the only Part of the Plant that is fold, is fometimes as thick as one's Arm, divided into several Roots, of a Thumb, or Finger's Thickness, yellowish, and of an intolerable Bitterness; the Leaves in some manner resemble those of Plantain, and grow two and two upon every Joint of the Stalk; they are smooth, green, pale, and bend to and again at their Tops to one another, by means of the Fibres that affift them underneath. The Stalks are straight, strong, of two or three Foot high, decked with yellow Flowers in June, which are disposed in Rings by degrees, in the Junctures or fetting together of the Leaves. Flower is of a Piece, divided into five Parts, very strait, and sharp pointed: The Tract which is in the middle produces a Capfula, in which is enclosed several round Seeds, but very flat, which are ripe in July. Chuse









Chuse the least Sort that is fresh, well dri- the Top like an Ear of Corn, with large ed, because it wasts considerably in drying, and that which is freeft from small stringy Roots, and Dirt that decays it. Take Care also that it be not dried in an Oven, which you may eafily diftinguish, because such will be black within, but on the contrary, that which is dried in the Air, will be of a Gold colour'd Yellow. This Root is reckon'd useful to refift Poisons and the Plague; and therefore is properly mix'd in the great Compositions of Treacle, and others of the like Nature: It is sudorifick, and given with Success in intermitting Fevers; for which it has received the Name of the European Kinquina, the same Name as is given to the Peruvian or Jesuits Bark.

This is the Gentian describ'd by Lemery. Ray in his History of Plants call'd Gentiana vulgaris major Ellebori albi Folio. The larger common Gentian, with the white Hellebore Leaf. The Plant is futficiently describ'd before, the Root is wrinkled when dry'd, and shrunk much from its former Size. It grows generally every where in the warm Countries, but more particularly on the Mountains of the Alps, the Pyrenees, and in Burgundy, abounding confiderably in Oil and Effential Salt. The whole Root is esteem'd better than that which is slit; and, it is likewise brought in good Quantities out of Germany. It is hot and dry, pectoral alexipharmack, antiscorbutick, opens Obstru-Ctions of the Lungs, refifts Poison, and is good against all Diseases proceeding from Purrefaction, as Measles, Small-pox, Plague or Pestilence: It cures the Scurvy, and is beneficial against Cachexies, Dropsies, Jaundice, Ulcers of the Bladder, Sharpness of Urine, &c. May be given either in Tin-Aure, Infusion, Decoction, or Powder. Dose. a Dram of the Powder.

21. Of White Dittany, or Dittany of Crete.

Hite Dittany, or Fraxinella, is a Plant whole Roots are white, smaller than the Little Finger, something bitterish, of a pretty strong Smell: The Stalks are two Foot high, reddish, follow'd with Leaves like the Oak, and charg'd at

Gridelin Flowers mix'd with Purple, compos'd of five Leaves, sharp pointed, and with long crooked Strings or Filaments: In the Middle of which Flower is produced a Head divided into five Kernels, or Betries, in which grow black shining oval Seeds, pointed at the Ends. Chuse the plumpest Root, white within and without, and least burden'd with small Fibres, and the clearest from Decay. This Plant flourishes in the Forests of Provence and Languedoc. The Root is brought to us sometimes from Crete, and is reckon'd Alexiterial, Uterine, and Diuretick: It kills Worms, cures malignant Diseases and Calentures. Swelfer, Charas, and most of the Modern Authors, have given particular Recommendations of this Root, and introduced it into their Compositions.

This Plant, according to Mr. Tournefort, is a kind of Origanum, Lemery. as he names it, Origanum Creticum

latifolium, seu Dictamnus Creticus. 'Tis a fine white Plant, very agreeable to the Eye. The Stalks are about two Foot high, hairy, and a little purplish in the Branches: The Leaves are of the Size of the Nails upon the Thumb, round and pointed, small at the Top, cover'd on both Sides with a white Cotton, of a sweet Smell and sharp Taste: The Flowers grow in a Cluster upon the Top of the Branches of a Purple or Violer Colour: The Roots are small and numerous. and grow upon Mount Ida in Candia; they abound with Essential Oil and Volatile Salt. It is call'd Dictamnus from the Greek, which fignifies to bring forth, this being reckon'd excellent to haften the Birth; besides which, it is a fingular Cordial, and very good for the Head and Nerves, given in Powder from half a Dram to a Dram, or two or three Drams in Tincture.

22. Of the White Carline Thiftle.

HE White Carline, and by some the White Chameleon, or Little Chardon, is a Plant, the Roots whereof are not much thicker than a Man's Thumb, brown on the Out-fide, and white within, from one to two Foot long, of a strong Scent, and agreeable Tafte enough. The Leaves hang quite round

wav'd and deeply indented, on each Side Carline. This differs from the former, in furnish'd with Prickles or little Thorns. The that the Head is not so large, nor so much Flower grows, like the Leaves, close to the spread. It grows, for the most part, only at Root, without Stalk, five or fix Inches large, the Top of the Stalk, which is rais'd among flat, and like a little Basin, edged with some narrow-pointed Leaves. The Seeds come after the Flowers; they are long, and bear a white Topping. Chuse your Root new, well-sed, and dry, of a sweet Taste, and aromatick Smell, and rake care that no other Root be impos'd upon you instead of this, because it is dear. It is one of the best Medicines against the Plague, because it is commonly received in the Catholick Countries that it was discover'd by an Angel to the Emperor Charlemain, for the Cure of his Soldiers, who were feiz'd with the Plague in their Camp; from which it took the Name of Carline.

The Black Carline is very like that we have describ'd, but the Stalk of this is more rais'd, and the Leaves are of a more obscure Green: It is what Mathiolus fays of another Species, whose Flowers are purple, but that is a Plant very scarce, and of no Use at all, The Virtues of the ordinary Carline are to resist Poison, provoke Sweat, to pass by Urine, and to open Obstructions; they are likewise serviceable in the Plague, Dropsy, Hypochondriack Passions, and the like. This Plant grows in the Alps and Pyrenees, and the Hills of Auvergne. Both the Kinds are so common, that the Peasants eat the Roots as the Artichoke when they are young and

tender. Carlina, in French Carline, or Lemery. White Chameleon, is a Plant, whereof there are two Sorts: The first is call'd Carlina acaulos magno flore, the prickly Carline with the large Flower: This bears from the Root large jagged Leaves, hanging to the Ground, &c. as before describ'd. When the Flower is past, there succced oblong Seeds, each of which are furnish'd with a Quantity of white Hairs, which represent a Brush : These Seeds are separated from one another by Leaves folded into a Gutter. The Root shoots direct into the Ground, sometimes two Foot deep, the Thickness of an Inch, of a dark Colour without, white within, of a ftrong aromatick Smell, and agreeable Tafte.

The second Sort of Carline Thiftle is the

it, lying to the Ground, of a pale Green, Chameleon niger vulgaris, the common Black the Leaves above a Foot high. The Flower is commonly white, very rarely red. The Root is not so big, or half so well fed as the White Carline; and both of them grow in the hilly Countries, as aforesaid. They take the Roots out of the Earth in Spring-time, to dry for keeping, which are afterwards us'd in Physick. The first Kind is to be prefer'd for that Use, as being fuller of Volatile and Effential Parts.

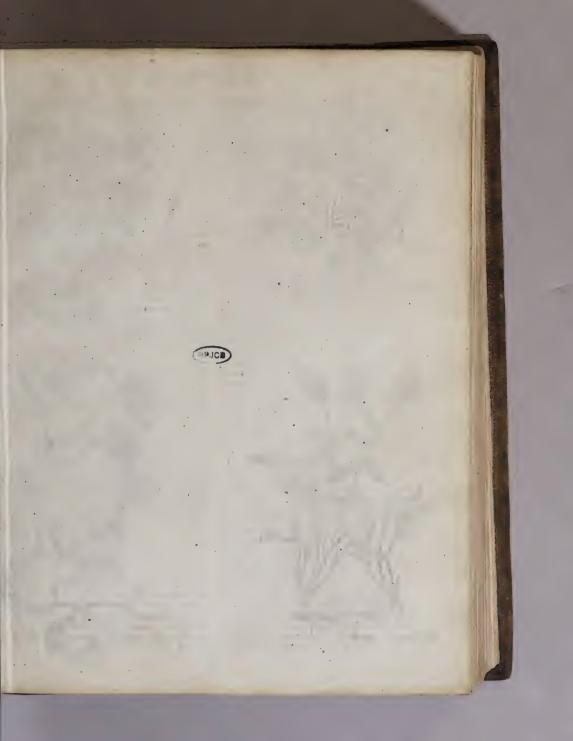
22. Of the large Valerian.

HE great or large Valerian, which Bauhinus calls Valeriana major odorata radice, the great Valerian with the scented Root, is a Plant, the Roots of which are about an Inch thick, brown on the Out-side, wrinkled in Rings deck'd with Fibres on the Sides, of a strong aromatick Smell, and very disagreeable: It is three Foot high, hollow, ftreight, and attended at each Joint with two Leaves, opposite to each other; the first are whole, the others cut on each Side. The Flowers are white, and scented like Jasmine; they grow in Clusters : On the Tops of the Branches are small Stalks or Pipes, divided again into five Parts, which leave behind them flat long Seeds, charg'd with a white hairy Tuft.

The little Valerian has small Roots, of a good Smell: The Leaves, which grow almost oval, are sharp at the End; the Stalk is a Foot and some Inches high, charg'd at each Joint with two Leaves, slenderly cut in at the Side: The Flowers are purple, and resemble those of the great Valerian, but they are thrice as small: Their Seed is the same. In relation to the Choice of these two Roots, take the newest and best dry'd, and least charg'd with Fibres that is possible. They are both us'd as Counter-Poilons, against the Plague, for Cure of the Asthma, Dropsy, &c. Valeriana, or Valerian, is a Plant,

of which there are three Sorts us'd Lemery. in Phyfick: The first is call'd Valeriana hortenfis, or Valeriana major odorata

radice





radice, by Baubinus and Ray; by Tournefore, company'd with a few small Roots, acrid, a Valeriana bortensis, Phu solio olusatri. This little bitter, and of an aromatick Smell. The bears the Stalks three Foot high, slender, Leaves are like those of Fennil, but much our Gardens, is the best, and most to be va-

lu'd of any of the Valerians.

The second Sort is call'd Valeriana vulgaris, or Valeriana Sylvestris major by Tournefort, the great wild Valerian; and by Ray, Valeriana (ylvestris magna aquatica, the great watry This bears the Stalks a wild Valerian. Man's height, straight, slender, and hollow like a Reed, a little hairy. The Leaves are like those of the foregoing Kind, but more divided, greener, indented on their Edges, a little hairy without : The Flowers are difpos'd as the great Valerian, of a whitish Colour, tending to Purple, which are succeeded by Seeds garnish'd with Plumes: The Root is fibrous, white, creeping, of an aromatick Tafte and Smell. This Plant grows in wet and woody Grounds.

The third Sort is call'd Va'eriana Sylvestris minor, or Valeriana minor Pratensis sive Aquatica, the Small, Wild, or Water Valerian. This bears a Stalk above a Foot high, angular, flender, branch'd, hollow, carrying the Leaves by two and two, jagged towards their Edges. The Flowers and Seed are like the former, but much less; the Roots slender, crawling, and white, having a great many Fibres, of an agreeable aromatick Taste. These are dry'd in the Sun, to be made fit for Use, and are Cardiack, fudorifick, vulnerary, aperitive, proper to refift Poilon, to fortify the Brain and Stomach, to destroy Worms, provoke the Monthly Courles, affift Perspiration, and expell

Wind.

24. Of Spignel.

MEUM or Spigne!, which the Antients surnam'd Athamanticum, either from Athamas, the Son of Eolus, the suppos'd first Discoverer, or from the Hill Athamas in Thessaly, where the best was said to grow. This Root is the Thickness of a little Finger, black without, white within, long, and ac- appropriated for the Bloody-Flux. Chuse

round, hollow, and full of Branches, adorn'd less, more divided, and abundantly finer. The from Joint to Joint with two Leaves opposite Stalks are a Foot high, charg'd with some to each other, as before in Pomet. The Clusters of white Flowers, compos'd of five Flowers are white, inclinable to purple, and fmall Leaves, after which come two brown fweet scented. This Plant, which grows in Seeds, bigger than Fennil-Seeds, and more furrow'd; which has made some believe that Spignel was a Species of Fennil or Dill, and fo call it crooked Dill or Fennil. This Root is very alexiterial, for which Reason it enters into the Composition of Venice-Treacle: It is likewise sudorifick and diuretick. It is brought to us from the Mountains of Auvergne, Burgundy, the Alps and Pyrenees,

Meum Foliis Anethi, or the Faniculum Alpinum perenne capillaceo for Lemery. lio, odore medicato of Mr. Tournefort, is a Plant which raises its Stalk a Foot high, hollow within, and full of Branches: The Leaves are like Fennil, but much less, more flash'd, and almost as fine as Hair: The Flowers grow in Bunches on the Tops of the Branches, like Dill; and when the Flowers are gone, a Swallow-tail'd furrow'd Seed succeeds. The Head of this Root is full of long Threads, like Eryngo. You ought to chuse the longest, roundest, well-fed, and entire, of a blackish Colour outwardly, and white within, the Smell aromatick, and the Tafte sharp and a little bitter, containing an exalted Oil, and a Volatile or Essential Salt,

25. Of Tormentil and Bistort.

THE Tormentil us'd in Physick, which C. Baubinus calls Tor- Pomet. mentilla Sylvestris, Wild Tormentil, is a Plant, whereof the Root is lumpish, of an Inch thick, brown or reddiff without, aftringent and fibrous. The Leaves are like Cinquefoil, smooth, shining, six or seven sup-ported on a Stalk. The Stalks are low, there, branch'd, charg'd with several Flowers, of four yellow Leaves; after which comes a Bud, in which several Seeds are contain'd.

The best Tormentil Roots come from grassy, wet Places about the Alps and Pyrenees. They use these in alexipharmack Compositions, as sudorifick; they are likewise Countries, which is better than what grows

in our Gardens.

Bistort is a Plant that has a Root an Inch thick, crooked, and roll'd upon it felf, with annular Foldings, brown without, and flethcolour'd within, trim'd with many hairy Fibres, of an aftringent Taste. The Leaves are like enough those of Wild Patience, of a lively Green without, and a Sea-Green on the Infide. This Plant is in Flower towards the End of May, adorn'd with several long Leaves, which are white at first. The Flowers are of a Flesh-Colour, crowded together like an Ear of Corn, but very little, and very thick; after which they bear a three corner'd Seed sharp-pointed enough. This Species is call'd, by C. Bauhinus, Bi-ftorta major radice magis intorta, the larger Bistort, with the winding or more crooked Root.

Tormentil is a Plant of two Kinds. The first is call'd Tormentilla, by Ray; Tormentilla Sylvestris, by Tournefort ; Heptaphyllum, by Fuchsius, by reafon it bears seven Leaves on a Stalk, as the Cinquefoil does five. The Flowers are compos'd each of four yellow Leaves, in Form of a Rose, supported by a Cup cut and divided into eight Parts, four larger and four smaller placed interchangeably. The Root is knotty and unequal, and delights to grow in Woods and shady Places, or others well

fupply'd with Moisture.

The second Sort is call'd Tormentilla Alpina major, or Tormentilla Alpina vulgaris major, by Tournefort, the common larger Alpine Tormentill: This differs from the former, in that the Leaves are larger, and the Root thicker, more plump, redder, and fuller of Virtue. We have this brought to us ready dry'd from the Alps, &c. The Way to chuse it, is to take the newest, best fed, about an Inch thick, clean, of one Piece, free from the Strings, well dry'd, of a brown Colour, reddish within, and of an aftringent Taste. It is binding, vulnerary, proper to stop Loosenesses of the Belly, Hemorrhages, Vomiting, Whites or Reds in Women, and to refift Infection: It is mix'd with cardiack and alexipharmack Medicines.

Bistore, as if you should say twice di-Borted, because the Root of this Plant is

the newest, and best dry'd, from the hot commonly turn'd and wound about it self: They give it the Name of Biftort from Colubrina, Serpentaria, and Dracunculus, by reason that this Root is twifted like a Serpent: 'Tis alfo call'd Britannica, from growing fo frequently in England. There grow, towards the Bottom of the Flower of some Bistores, several Knots or Excrescencies, which some Authors have call'd Fungi Bistortæ; but there are a fort of little Roots, which produce each of them a Plant like what these bear. It is cold, dry, aftringent, and ftops Fluxes of the Bowels, Vomiting, and Abortion, and dries up Catarrhs: It is given in Powder, Infusion, or Decoction in Wine and Water, and is good in a Gonorrhea, or Whites in Women.

26. Of the Aristolochia's, or Birthworts.

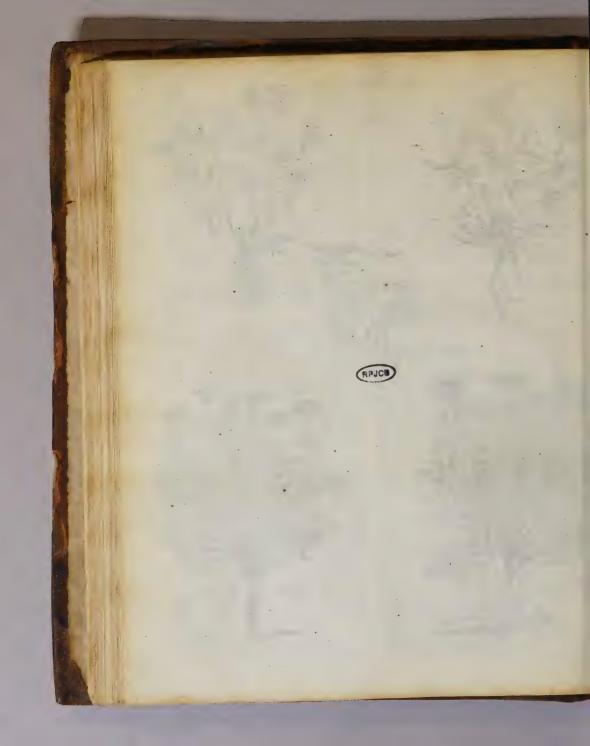
THERE are three Sorts of Birthwort generally fold, viz. the Pomet. long, the round, the light or small; and there is a fourth Sort, which is the Saracen's Birthwort; but as we make little or no Use of that, we shall not speak much of it.

The round Birthwort is a tuberous, fleshy. Root, of different Sizes, to two or three Inches diameter. They are very uneven and irregular, that is to fay, commonly much larger at the Bottom than at the Top. This Root is of an intolerable Bitterness, yellow within, brown without, but not disagreeable in Smell, and furnish'd with some short Fibres: Several Stalks arise from the upper part, which fpring above a Foot high, accompany'd interchangeably with almost round Leaves, sticking to and embracing the Stalk at the Bottom, cut into two Ears, Swallowtail'd: The Flowers grow at the very fetting on of the Leaves: The Stalks are yellow, and ftreach an Inch and half long, divided in the middle, and flat like an Oxe's Tongue, of a very deep red, which almost comes up to a Soot-Colour; they are without Smell: And the Seeds are black, very thin and flat, almost triangular, and are enclos'd in a small membranous Fruit, green in the beginning, brown when ripe, and divided length-ways into fix Cells.

The long Birthwort is a Root like a Radish, but a great deal thicker and longer, flethy, brittle, brown without, yellow within, very bitter, and fomething fibrous: The

Stalks:





in their Cells very flat, black Seeds.

Aristolochia Polyrrhizos; and C. Bauhinus, Aristolochia Pistolochia Dicta, is the least of finite Number of very small yellow Fibres. flicking to the same Head, hairy, very bit-ter, and of a good strong Smell. The Stalks are weak, flender, bending to the Ground, interchangeably deck'd with very fmall Leaves, which are paler than those of others, in Form of a Heart revers'd, and supported by very fine Stalks, bearing Flowers like the round Kind, but much less, yellowish, mix'd with a Sooty Colour. This is the Birthmort we fell for the small Sort.

The Clematite, or Saracen Birthwort, has fibrous Roots running along its Sides, very bitter, and of a Smell agreeable enough: The Stalks are two or three Foot high, ftraight, firm, and stronger than the former, furnish'd interchangeably with very large Leaves, of the Figure of a Heart, of a pale Green Colour, hanging upon long Stalks: The Flowers grow upon the Neck of the Leaves, after the same manner as the other Kinds, but much less: Their Fruit, on the contrary, larger, oval, and divided into fix Cells full of very flat Seed, which is triangular. Baubinus calls this Species Aristolochia Clematitis recta.

All these Kinds grow in the Fields and Vineyards of Provence and Languedoc, except the Small Birthwort, which loves the Woods, the Olive-yards, the dry and rocky Hills of the same Countries, so they are more aromatick and stronger. Messieurs Rondelet and Charas, with good Reason, prefer'd this Birthwort to the Saracen Kind, for Treacle. All the Sorts open Obstructions, and are purgative: They are us'd every Day with Success, in Decoctions, Injections, Lotions, deterfive and vulnerary Draughts, and the like.

Aristolochia, or Birthwort, is a Lemery. Plant, of which there are four Sorts generally us'd in Physick. The first is call'd Round Birthwort, which is di-

Stalks are longer than those of the Round, stinguish'd into two Sorts, one call'd Aristobending to the Ground, hung interchange- lochia rotunda vera, or Aristolochia rotunda ably, with Leaves not altogether so round as flore ex purpura nigro, the Birthwort with the former, and which are supported by a the black purple Flower: It bears several small Stem. The Flowers are a little closer Stalks, weak and pliant like the Vine Branch than the Round, but the Fruit are of the Fi- about a Foot and a half high. The Root is gure of a small Pear, which likewise contain tuberous, round, pretty thick, fleshy, fibrous, grey on the Out-fide, and yellow within, The Birthwort, which J. Baubinus call'd difagreeable to the Smell, and of a bitter Tafte.

The second Kind of Birthwort, call'd Round. all the Roots: They are compos'd of an in- is the Aristolochia rotunda flore ex albo purpurascente, the round Birthwort with the white purplish Flower: This differs from the other. in that the Stalks are more numerous, but shorter; and the Leaves much larger, oblong, and hanging upon longer Stalks; that the Flower is of a white Colour, inclining to Purple, brown on the Infide; and that the Fruit is longer, more like a Pear; the Seed less, of a red Colour; and the Bark. of the Root vellow. This Plant grows among the Corn, in the Fields.

The next Sort of Birthwort, call'd Long, is of two Kinds; the first call'd Aristolochia longa vera, or Aristolochia altera, radice pollicis crassitudine, or the other Kind of Birthwort, with a Root the Thickness of one's Thumb: It bears feveral winding Stalks about a Foot and a half high, leaning to the Earth, carrying foft Leaves, less Swallow-tail'd than those of the Round, terminating in a Point, and hanging upon their Stalks. The Flowers are like the Round; the Fruit in Form of a small Pear, producing a flat Seed: The Root is near a Foot long, sometimes the Thickness of a Man's Wrist, and sometimes an Inch: The Colour, Smell, and Tafte like the others. This grows in the Fields among Corn, in the Hedges and Vineyards.

The fecond Kind of Long Birthwort is call'd Aristolochia longa altera, or Hispanica, the other, or long Spanish Birthwort. This differs from the former only, in that the Flower is not so purplish within, and the Root is much shorter. This grows plentifully in Spain, in the Kingdom of Valencia, and other warm. Places among the Vines. Both the Round and Long contain a great deal of Essential Salt, Oil, and Flegm: They all resist Poison, Pestilence, and the Gangrene: Both Root and Leaf are useful in external Remedies.

call'd the Saracen Birthwort, or Clematite, of which there are two Kinds. First, the Aristolochia clematitis recta: This bears ftraight, firm Stalks of two Foot high, where there interchangeably hang, upon long Stalks or Tails, Leaves of the Figure of Ivy, but of a pale Green: The Flowers grow in great Numbers upon the very Necks of the Leaves, like the former Kinds, but less, and of a pale Yellow Colour: The Fruit, on the other hand, is larger, fill'd with a black flat Seed: The Root is little, fibrous, winding on all Sides, grey, of an agreeable Smell enough, bitter in Taste, and pungent. This Plant grows in the Fields, Woods, Hedges, or Lanes, in the hot Countries.

The second Sort is call'd Aristolochia Clematitis Serpens, or Altera Hispanica: It bears a small Vine-like Stem, of three or four Foot high, hollow, winding, and clinging to other Shrubs, or neighbouring Plants, like the Hop or Bindweed: The Leaves are large, pointed, green, and united above, and purple and white underneath, join'd by long Scalks: The Flower and Fruit are like the other Clematite; but the Flower is yellow, or of dark Purple, lin'd within with a fine Wool: The Root is longish, and compos'd of many serpentine Fibres, of a pale Colour, acrid Taste, a little aftringent, but not grateful. The whole Plant is sweet, and grows chiefly in Spain, in Bushes in the Olive-

Grounds. The fourth is call'd the Small Birthwort, of which there are two Sorts; the first, Aristolochia tenuis, or Aristolochia Polyrrhizos, sive Pistolochia Plinii, it being the best Purgarive to affilt the Birth, or bring away the After-Birth, Dioscorides representing it to be the properest for that Purpose. This is the least of all the Birthworts: It produces several small Stalks, or Boughs, which spread themselves upon the Ground. The Leaves are form'd like the Ivy, but little and pale, fasten'd by slender Tails or Stalks. The Flowers are like those of the other Kinds, but a great deal smaller, sometimes black, sometimes of a yellowish Green: The Fruit like a small Pear. The Roots are very fine, stringy, join'd together by a little Head, in Shape of a Beard, or Head of Hair.

The third Sort, or Species of Birthwort, is or Pistolochia altera: It bears Vine-like Stalks, of a Foot in height, that have corner'd, hollow, pliant Branches, lying on the Ground, hard to climb, of a dark Green Colour: The Leaves like the other Sort, but sharper at the Ends, ty'd to long Stalks : The Flower and Fruit like the Long Birthwort; but the Flower is not of such a brownish Red, and the Fruit much less: The Roots are fine, with flender Fibres, fweet fmelling, like the former Species, and grow in the hot Countries. All the Kinds of Birthwort are deterfive and vulnerary, good to provoke Urine and Sweat, to attenuate the gross Humours, and affift Perspiration.

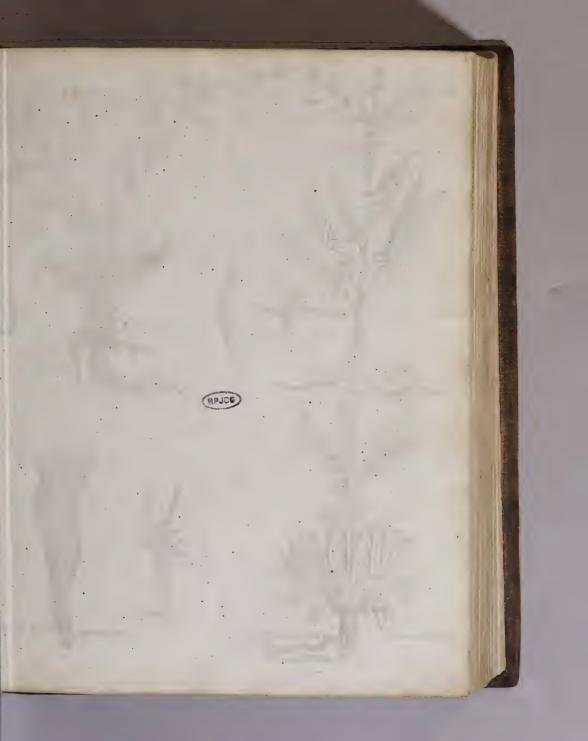
27. Of Pellitory.

DEllitory is a Root of a moderate Length, the Thickness of a Little Pomet. Finger, greyish without, white within, futnish'd with some small Fibres, of an

acrid burning Tafte. It produces little green Leaves; and the Flowers of a Carnation Colour, like our Daisies. Chuse such as is new, well-fed, dry, difficult to break, and of a Taste and Colour as said before.

The Pellitory we have, is brought, by Marfeilles, from Tunis, where it grows common: It is much in Use for easing the Toothach, being held in the Mouth; and is of feveral Uses in Physick. The Name of Pyrethrum is taken from its burning Quality. Some will have it to come from Pyrus, King of Epire, who first discover'd its Use, and from whom it derives its Name.

There is still another Sort of Pellitory, which the French call Alexander's Foot, and is the tufted Pellitory: This is a little Root half a Foot long, of a brownish Grey without, and white within, fomething fibrous, the Tops of which are a fort of Spignel, of an acrid biting Tafte, approaching to that of Pellitory; upon which Account it is call'd Wild Pellitory, and some use to sell it for true Pellitory; but it is easy to distinguish, this being smaller, longer, and carry'd about in Bundles. The Plant and Leaves are very little, of a greenish Yellow; and the Flowers which grow in Clusters are of a pale Red. This is brought to us from Holland The second Sort of this is call'd Aristolochia, and other Parts. They use this, as well





as the other Kind, to make Vinegar of in France.

Pyrethrum, in English Pellitory, or the Spitting Root, is brought dry'd to us from foreign Countries; but we have two Sorts. The first, and the best, is in long Pieces, about the Thickness of one's Little Finger, round and wrinkled, of a greyish Colour without, and white within, deck'd with a few Fibres, of an acrid, burning Taste, and grows in the Kingdom of Tunis.

The Plant which bears this, is call'd Pyrethrum Flore Bellidis, the Pellitory with the Daily Flower. These Leaves are slash'd like those of the Fennil, but much less, and green, resembling those of the Carror: They rife from small Stalks, which, on their Tops, support large radiant Flowers, of a Carnation Colour, like the Daily: After them succeed

fmall oblong Seeds. The fecond Sort is a long Root about half a Foot high, much less than the former, of a brownish Grey without, white within, furnish'd with Fibres. This Root has an acrid, butning Taste, like the former, and is brought to us in Bundles from Holland. Some call it Wild Pellitory. The Plant which it bears, is call'd Pyrethrum Umbelliferum, and by the French Alexander's Foot. It grows a Foot high. The Leaves are small, cut fine as the other Pellitory, but of a yellowish Green. The Flowers grow on the Tops, dispos'd in Clusters, of a pale Red. Both the Sorts of Pellitory contain a great deal of acrid Salt and Oil, but the first is more powerful than the second. There is also a Pseudopyrethrum, which is call'd Ptarmica, or Sneezewort, which grows in Meadows, or untill'd Grounds, whose Roots are chiefly kept in the Shops: Being hot and dry, it is inciding, attenuating, and violently fudorifick; us'd chiefly against viscous Flegm in the Lungs, which it expells by Spitting and Urine: It is good against most Diseases of the Brain and Nerves; expells Wind, and prevails against Apoplexies, Lethargies, Vertigo's, Palsies, benum'd Members, Cholicks: It stimulates the Fibres, and is said to eure Quartan Agues. A Gargle of it cures the Thrush, and cold Rheums in the Teeth or Gums.

28. Of White and Red Behen, or Ben.

THE Woite Ben is a Root like the Pellitory, grey without, and something whiter within; the Taste almost insipid. but being held long in the Mouth, it leaves a Bitternels disagreeable enough. This Root is brought to us from the same Places that the Red Ben; and the Leaves are much the same, except that this has, at the Bottom of each Leaf, four small ones of the same Form and Colour, that grow opposite to each; in the middle of which rifes a high Stalk, adorn'd with some few Leaves, and a budding Flower full of Scales, which, when blown, produces a little yellow Flower. Chuse your Root plump, not totten, or easy to break, but the freshest you can possibly get. It is appropriated to the same Intentions with the Red Ben.

The Red Ben is a Root brought to us cut in Pieces like Jalap, from Mount Libanus, and other Places of Syria, which, standing in the Ground, is of the Shape of a large Parsnip, deck'd with Fibres, of a brown Colour outwardly, and red within; from whence arises green long Leaves, like those of the Beet or Winter-green. For this Reason, some will have it, that there is another Species, from the midst of which grow Stalks adorn'd with red Flowers, which are ranged two and two together, after the manner of Jamaica Pepper. Chule such as is dry, of a high Colour, astringent, aromatick, and new as it can be. There are some use it in Physick; but those do it more for its Scarceness than any Service, the Roots of Angelica, Zedoary, Borrage, and Bugloss, supplying its Place. It is reckon'd cordial, and a Refister of Poison.

29. Of Orcanette.

ORcanette is a Root of a moderate Size and Length, of a deep red Pomer. Colour on the Out-fide, and white within, which produces green rough Leaves, like the Buglofs: For this Reason some call it Wild Buglofs: In the Middle of which arises a straight Stalk, adorn'd with little Leaves, and the Flowers, by Buds, in sorm of a

canette new, pliant, but yet of a deep red without, white within, with little blue Heads, and which, being rubb'd a little, wet or dry, upon the Nail, or on the Hand, makes

a beautiful Vermilion.

As the Colour of the said Root lies in the Superficies, those who use it for colouring of their Wax, Ointment, or Oils, prefer the fmall to the gross; and if it is clean, it produces a very fine Red. The Orcanette grows in Provence: From thence it is brought to us, by the Way of Marseilles, and Nismes in Languedoc. This Root is very useful in Phyfick, as well as for the Purpoles afore-

faid.

There is another Orcanette of the Levant, or Constantinople, which is a Root of a furprizing Nature, as well from its Size and Thickness, which grows sometimes larger than the Arm, which looks, in Appearance, to be nothing but a Mass of large long Leaves, twisted like a Roll of Tobacco; which, by the Variety of its Colours, at the first being of an obscure Red, which is succeeded, in time, with a very fine Violet-Colour; at the Top of which is produc'd a kind of Rottenness or Decay, white and blueish, which is, as it were, its Flower. In the middle of the said Root is found a Heart, which is a little Bark, thin and long, like Cinnamon, of a very fine Red without, and White within. This Orcanette is of very little Use, but yet gives a better Colour than the common.

Anchusa puniceis floribus, or Bugloffum radice rubra, five Anchusa vulgation, by Tournefort; in French, Orcanette, is a Species of Bugloss, or a Plant which bears feveral Stalks above a Foot high, bending to the Ground. The Leaves are like those of the Wild Buglos: The Flowers grow on the Top of the Branches; and, when they fall, are succeeded by Cups, which contain Seeds shap'd like a Viper's Head, of an Ash Colour: The Root is an Inch thick: The Bark is red, and whitish towards the Heart. This Plant grows in Sandy Places in Languedoc and Provence. The Root is dry'd in the Sun, to be fit for the Druggist's Use: It makes a good Dye for Pomatums, and the like; and yields a

Star, of a faint pale Blue. Chuse your Or- aftringent, stops Fluxes of the Belly, being made into a Decoction. They use it outwardly for deterging, and drying up of old

> We have brought to us oftentimes, from the Levant, a kind of Orcanette, call'd Orcanette of Constantinople. This is a Sort of Root as thick and large as a Man's Arm, but of a particular Shape; for it produces a Mass of large Leaves, twisted like a Tobacco-Roll: In Appearance, the whole looks as if it was artificial.

20. Of Madder.

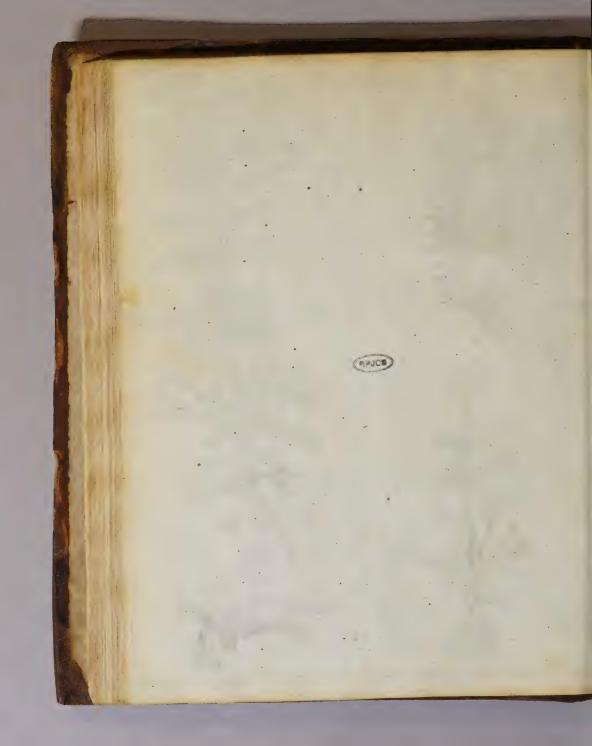
HE Madder, which is call'd Rubia tinctorum, is the Root of a Pomet. Plant well known. 'Tis of this Root the Dutch make fuch great Advantages, by the Quantity of Madder they sell in different Countries, and throughout France.

The Madder comes to us after three manner of Ways, which we distinguish by the Names, Madder in the Branch, Madder in the Bundle, and Madder unbundled. The first Sort is brought to us in the Root just as it comes out of the Ground, without any other Preparation than that of being dry'd. The fecond Sort is that of the Bunch Madder, or fuch as is made into Bundles; which is Madder in Branch first freed from the Bark and the Heart, and ground by a Mill into a gross Powder, as we buy it. The third Sort is the Madder unbundled, that is to fay, the Branch'd Madder ground to Powder. But the Bunch'd Madder, or that in Bundles, is the best; which, for its Excellency, when it is fresh, is made into Bales, or put up in Casks; of a pale Red, but as it grows older. encreases its Colour to a fine Red. That of Zealand is esteem'd the best for the Dyer's

Madder is a Plant whereof there are two Sorts; one call'd Rubia Tin-Storum Sativa, according to Tournefort; sive Hortensis, according to Parkinson, that is, the Garden or Cultivated Madder: The other is Rubia Sylvestris, or Erracica. The first Kind bears long four-fquar'd Stalks, knotty and rough, from whence shoot out at every Joint five or fix oblong narrow Leaves, which furround the great deal of Oil, with a little Salt: It is Stalk in the Shape of a Star or Wheel. The

Flowers





rous, long, and divided into several Branches; about the Thickness of a Goose-Quill, red throughout, woody, and of an aftringent Ground, in many Parts of Europe, and gather the Root in May and June, to dry it for keeping and Transportation.

The second Sort, call'd Rubia Erratica, or Wild Madder, is much less, and rougher than the former: The Flowers are small and yellow: It bears the Fruit in Summer and Autumn, which lasts the same in Winter. It grows in the Hedges about Montpelier; and the Root is only us'd in Physick, especially the Garden Kind: It contains a good deal of Essential Salt and Oil. Both the Sorts are aperitive by Urine, and a little aftringent for the Belly: They provoke the Terms. open Obstructions, and are us'd successfully in the Faundice, and may be given in Powder. Tincture, or Decoction, to the Purposes

aforesaid.

ar. Of Salfaparilla.

SAlfaparilla is the long Filaments, or fibrous Parts of a Root, the Plant whereof runs upon Walls, Hedges, Trees, &c. with long, strair, pointed Leaves, of a green Colour, fill'd with cross Strings or Fibres: At the Bottom of the Leaves grow little Filaments, like Hands to catch hold of Trees, just as the Virgin Vine does: On the Tops of the Branches arise little white Flowers, like Stars, from whence comes small red Fruit, of a sharpish Taste. This Plant grows plentifully in New Spain, and in Peru, the East-Indies as well as the West, and delights exceedingly in wet and marshy Grounds.

rilla is the same Plant which is very com- nothing near so good. There is some which

Flowers grow on the Tops of the Branches, jor, the large prickly Bindweed, or Smilar. fasten'd by little Seems: They are in small as it is call'd sometimes, from the Name of Cups, cut into five or fix Parts, dispos'd like a Child, which Ovid, in his Metamorphofes, a Star, of a yellow greenish Colour; and says was chang'd into this Plant. There are when the Flower is gone, the Cup brings two Sorts of Salfaparilla fold, viz. the Indian forth a Fruit of two black Berries, ty'd to- Salfaparilla of Spain, and the bigger Salfapagether, full of Juice; each of which con- pilla of Marignan, or Marahan. The finest tains a Seed almost round, enclos'd in a and best of the two, is that of Spain, which Membrane or Pellicle. The Roots are numer has long fringy Roots, the Thickness of a Goose-Quill, greyish withour, and white within, attended with two Streaks, reddift within, easy to break in two, and when it Tafte. They cultivate this Plant in rich is broke, is free from being worm-eaten; and, being boil'd, tinges the Water of a redd sh Colour. Reject such as is moift, extreamly small, full of Fibres; and likewise a Sort of Salfaparilla from Holland, in little Bunches, cut at both Ends. Some will have it that the Salfaparilla, reddish on the Outfide, and ty'd up in long Bunches, which comes by the way of Marfeilles, is not fo good as the other; but, for my Part, I can affirm, I never could find any Difference betwixt that and the true Spanish Salfaparilla: Yet the large Bastard Salsaparilla, or that of Marignan, ought absolutely to be rejected. which some call fallely Muscoon Salfaparilla. which is fitter for lighting of Fires, than to be us'd in Physick. The Use of this Root is much for Ptisans, or Diet-drinks, for curing the Venereal Disease, and making such lean as are too fat.

Sarsaparilla, or Salsaparilla, is a very long Root, like a small Cord, which is brought from New Spain in Collars, or long Bundles of fibrous Branches, the thickness of a Writing Quill. This is the Smilax, or Bindweed, call'd Smilax Aspera Peruana, sive Salfaparilla. The Stalk is long, serpentine, wooddy, prickly, yielding and climbing like the Vine, upon every Shrub or Tree. The Flowers, which are of a white Colour, at last produce Berries, which are round and fleshy like small Cherries, green at first, a little reddish, and at last black, which contain in them one or two stony Nuts, of a whitish Yellow, in which is a Seed, or white hard Almond. The best Salfaparilla is that which is round, full, apt to break, when bent together, mealy, and white within; that which Some will needs have it, that this Salfapa- is thrivell'd, lean, tough, and not mealy, being mon in France, and call'd Smilax afpera ma- comes from Jamaica, and other Parts, but

that is tough, not mealy, and so not of equal binus, Scilla rubra magna vulgaris, the great Value with the Spanish. Our Merchants common red Squill; and, by Mr. Tournefort, bring another Sort, which they call Marignan Ornithogalum maritimum, seu Scilla radice ru-Salfaparilla, which is larger and groffer than bra, the Sea-Onion, or Squill with the red Dram to two Drams.

22. Of Squills.

THE Squill, which is very com-Pomet. monly call'd the Sea-Onion, or Sea-Leek, is a knotty crumpled Root, reddish without and within; which, from the Ground, fends forth climbing Stalks, the Length of other Shrubs, from whence grow large green Leaves, in the Shape of a Heart; and the Stalk is furnish'd all along with little Prickles like Thorns.

The Squill which we fell, is brought to us from several Parts of the East-Indies and China, both by the Way of Holland, England, and Marseilles, just as it is taken out of the Ground, but only freeing it from the first Skin, cleaning and picking off the Extremities,

to make it fell the better.

Chuse such as is plump, sound, fresh, and full of Juice; this being a bulbous Root, take care it be clean, free from Worms, cleans'd from the outward Skin, and of a red Colour. The Squill is much in Use to make sudorifick Ptisans, and is employ'd to that Purpose with Salfaparilla; and, 'tis said by fome, the one is useless without the other.

There grows in the Islands of the Antilles, a large Root, which some affirm to be the true Squill; but as that is not yet confirm'd, I shall refer the Reader to a Book of the Reverend Father du Tertre, who has made a fine and large Description thereof; but as that Account has no Relation to our Business, I do not think it proper to fay more of it.

Scilla, in English the Squill, is are two Species: The first is call'd, by Bau- but of a grey Colour on the Our-fide, and

that of Peru, and nothing nigh so good. It Root. It bears Leaves above a Foot long, as is call'd Sarfaparilla, which is as much as to Hand's breadth, fleshy, very green, fill'd with fay, in the Indian Tongue, A Plant made up a clammy bitter Juice, which rifes in the of the Vine and Bramble. This Root is su-Middle of the Stalk, which is a Foot and dorifick, alexipharmack, and a great Alcali. half high, bearing on the Top round Flow-Its chief Use is against the French Pox and ers, compos'd of fix white Leaves; which, its Symptoms, the King's-Evil, Rheumatisms, when drop'd, are succeeded by Fruit made Catarrhs, Gouts, and all Diseases proceed- up of three Corners, and divided within into ing from them, taken in Powder from a three Apartments, fill'd with black Seeds. The Root is an Onion, or large Bulb, as big as a Child's Head, compos'd of thick Lamina, which are red, fucculent, and viscous.

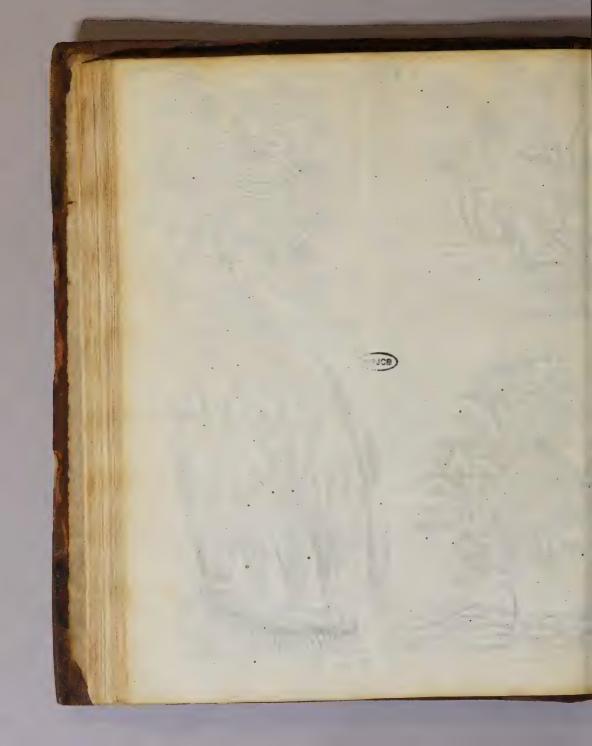
The fecond Sort is call'd the Scilla minor. or Ornithogalum maritimum, seu Scilla radice alba, by Tournefort. This differs from the former, in that the Leaves are not so large, and the Root is much less, of a white Colour, and not so common. The Squills grow in sandy Places near the Sea, in Spain, Portugal, Sicily, and Normandy: They are brought to us of all Sizes. We chuse the newest, of a moderate Size, well cured, well fed, gather'd in the Month of June, plump, found, and full of a bitter, acrid, clammy Juice. which yields a great deal of Effential Salt, Oil, and Flegm, with some Earth. They are incifive, attenuating, deterfive, aperitive; refift Putrefaction, provoke Urine and the Terms: Internally, they are us'd in Decoctions, or Substance; and, externally, to Scabs, Boils, and the like.

33. Of Azarum, or Wild Spiknard.

T'HIS Root, commonly call'd Cabaret, or Wild Spiknard, grows Pomet. very frequently in most Parts of the Levant, in Canada, and likewise in France all about Lyons, from whence comes almost all we fell now. This Root, when in the Earth, fends forth Stalks, on the Tops of which grow green thick Leaves, like a Man's Ear, and the Flower in Buds, as the Rose, and of a reddish Colour.

Chuse the true Spiknard from the Levant, Lemery. a Kind of Ornithogalum, Dog's- if you can possibly get it, and such Roots as Onion, or a Plant whereof there are the most beautiful, not fibrous or broken,





white within of a penetrating, quick Smell, about half a Dram to two in Insusion, and and of an acrid Tafte, attended with a little about half a Scruple to a Dram in Powder: Bitterness. Take care that you do not take the Azarina, or small Spiknard for it, which is brought to us from Burgundy, and may be mix'd but in small Quantities, with abuneasily distinguish'd, in that the Azarum has grey Roots, of the Thickness of a Writing-Pen; and the Azarina has many little black dry'd Roots, full of Strings, or Filaments. which is sufficient enough to know it from the other.

The Spiknard is very little us'd in Phyfick; but the most considerable Importance this is of, is to mix with Starch, and the like, in order to make Powder for the Hair, about one Ounce of this being put to two; and the same is very proper for the Cure of the Farcy, and other Diseases of that kind. It is observable that the Azarum is a Plant, whose Root is almost cut close by the Ground, that is to fay, it enters it very shallow; but the Root spreads about a Foot in the Earth. after the Nature of round Sombread, of a yellow Colour without, and white within 3 which, if squeez'd, affords a Milk, which burns like Fire. I was willing to take Notice of this Thing, because some People will have it that No-body knows this Plant, or have ever writ about it.

Azarum, or Afarum, Wild Spik-Lemery. nard, is a small Plant which bears its Leaves like those of the Ground-Ivy, but smaller, rounder, tenderer, smooth, and of a shining Green, fasten'd upon long Stalks. The Flowers grow near the Root, supported upon short Stems, which arise at the Bottom of the Stalks of the Leaves: Each of the Flowers has five or fix Purple Supporters, which raise up the hollow of the Cup, that is divided commonly into three Parts. When the Flower is gone, a Fruit follows in the Cup, which is cut into fix Parts, and divided each lengthway into fix Lodgings, which contain in them little. longish, brown Seeds, full of a white Substance, whose Taste is something acrid. The Roots are close by the Ground, small corner'd, creeping, knotty, crooked, and stringy. This Plant grows upon the Mountains, and in the Gardens, or shady Places; and the Leaves

It is likewise us'd in several Compositions, where it does not vomit at all, because it is dance of other Ingredients.

34. Of Liquorice.

HE Liquorice, which the Latins have call'd Glychirriza, liquiritia, Pomet, Radix dulcis, is a Plant which has clammy Leaves, that are green, shining, and half round; the Flowers like those of Hya-cinth, of a Purple Colour; from whence come the Husks, which make, in some meafure, a round Ball, wherein the Seed is contain'd.

The Liquorice fold at Paris, is brought thither, by Bales, from several Parts of Spain, but chiefly from Bayonne and Saragoffa Side of the Country, where that Plant grows in abundance. Chuse your Liquorice fresh, of about two Inches thick, reddish without, of a Gold-Colour within, easy to cut, and of a sweet agreeable Taste: That of Saragossa is the best, and is to be prefer'd to that of Bayonne, which is greyish without, less, earthy, and of little Esteem. As to dry or powder'd Liquorice, chuse such as is yellow and dry, and take care to avoid that which comes loofe, and is not brought in Bags or Bales, which is commonly black, spoil'd, and of no Virtue. The Use of Liquorice is too well known to be particular in that: I shall only give you a Receipt, which is excellent for Horses that are stuff'd up, and have a Difficulty of Respiration. Take Powder of Liquorice, and Flowers of Brimstone, of each equal Parts; mix them, and give from two Ounces to four, according to the Size of the Horse, twice a Day. This is a good Medicine to cure broken-winded Horses, taken at the beginning; or for thort-winded or purfy Horses, when the Malady is confirm'd.

Of Black Liquorice Juice:

Make of Liquorice and warm Water, a continue green all the Year: It purges strong yellow Tincture, which afterwards is sweetly, upwards and downwards; is aperitive, to be evaporated over the Fire, to a solid and opens Obstructions. The Dose is from Consistence, till it becomes black, and is What what we call Black Liquorice Juice, which is calld, Glycyrrhifa Echinata, or Glycyrrhifa comes to us ready made from Holland, Spain, capite Echinato, the prickly Liquorish, or and Marseilles, in Cakes of different Sizes, that with the Chefnut Head: It bears its which sometimes weigh four Ounces, or half a Pound. The Liquorice Juice which has the most Virtue, is black without, and of a shining Blackness within, easy to break, and of a grateful Taste enough, but reject fuch as is fost, reddish, and, when broke, is stony, and has a burnt Taste. The Juice is very useful to cure those who are afflicted with Fluxes of Rheum, Coughs, Afthma's, &c. chewing it in the Mouth like Tobacco, and diffolving it in any convenient Liquor. We fell besides, other Kinds of Liquorice Tuices, as those of Blois, both white and yellow, and those of Rheims or of Paris, which are cut into flat Pastiles. The Juice of white Liquorice made at Paris, is a Composition of Liquorice Powder, Sugar, Almonds, and Orrice Powder; but as there are various Methods of making up these kind of Lozenges, either with Gums, Sugars, and Variety of Druggs, I shall pass them by, and only fay, that I think the black Juice, fingly, to have more Virtue than any of the Compositions.

There are several other Roots sold in the Shops, besides what I have mention'd, which grow in the Gardens, and other Places about Paris, as the Enula Campana; the Paony, Male and Female; the great and leffer Arum, or Wake Robin; the large and small Dragonmort; the Cyclamen, or Som-bread; the Doggrafs, or Quick grafs; and several others, which the Herb-sellers furnish us with, as

we have Occasion.

Glycirrhifa vulgaris, or, accord-Lemery. ing to Tournefort, the Glychyrrifa filiquosa, vel Germanica. This is a Plant which bears several Stalks three or four Foot high: The Leaves are longish, viscous, green, thining, dispos'd into Wings like the Oak, or the Acacia, ranged in Pairs along the Side, terminating in a fingle Leaf, of a smart Taste, tending to an acrid: The Flowers are of the leguminous kind, and purple-colour'd, succeeded by short Husks, which enclose Seeds that are ordinarily of the Shape of a little Kidney. The Roots are large and long, dividing themselves into several Branches, some as thick as one's Thumb, and others as the Finger.

There is another Sort of Liquorish which

Branches a Man's Height, carrying long Leaves, sharp at the Ends, and made like the Mastick Tree, green, a little glutinous, and dispos'd as the former Species. The Flowers are small, bluish; after which grow Fruit compos'd of feveral Husks, which are longish and briftled at the Points, standing one against another, and join'd together almost at the Bottom. The Roots are long, and as thick as an Arm, growing straight in the Ground, without any Division at all: This grows chiefly in Italy, and is of no kind of use, because the other Sort is so much the better both in Taste and Virtue.

Liquorish is brought to us out of Spain, and many other Countries of Europe, but the best is that which grows in England: The best is large, thick, substantial, and of a good Length, being of a brightish Yellow within. The Spanish is much like the English, fave that it dries faster, and is more wrinkled in its Bark. That which comes from Brandenburgh is a good Kind, and being dried will keep good two Years: It is one of the best Pectorals in the World, opens Obstructions of the Breast and Lungs; easeth Griping of the Bowels and Cholick, and is good to mix with Catharticks. It cures Ulcers of Kidnies and Blader, allays Sharpness of Urine and piffing of Blood; is fingularly useful against Coughs, Colds, Asthma's,

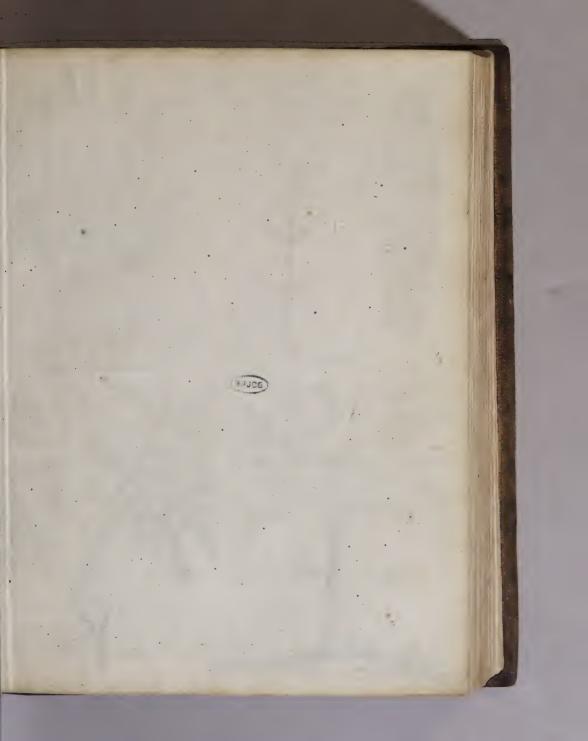
Wheezing, Difficulty of Breathing, and other Diseases of those Parts.

35. Of the true Aromatick Reed.

THE true Acorus, which is im-Pamet. properly call'd Calamus Aromaticus, is a Reed or knotty Root, reddish without, and white within, adorn'd with long Filaments, or fibrous Strings, of a light Substance, and easily subject to worm-eat : There come from the faid Root green Leaves, long and ftraight; and the Fruit about three Inches long, of the Size and Shape of long

Chuse your Acorus new, well fed, clean'd from the Fibres, hard to break, of an acrid Tafte, accompanied with an agreeable Bit-

ternels.





terness, of a sweet Smell, and very aroma- Flowers. This little Reed grows in several tick: tis for this Reason it is more known by the Name of Calamus Aromaticus, tho' altogether improper, than that of the Acorus. This Root, which is commonly of the Thickness of a little Finger, and about half a Foot long, is brought to us from feveral Parts of Poland and of Tartary; and likewise from the Isle of Fava, where it is call'd Diringo. The Acorus is of some small Use in. Physick, and is one of the Ingredients of the Treacle, without any other Preparation but being well pick'd and clean'd, and freed from Dirt, or any thing elfe that may flick to the Root, which is much used by the Perfumers.

The true Acorus, or the Calamus Lemery. Aromaticus of the Shops, is a Root the Length of one's Hand, a Finger's Thickness, full of little Knots and Strings, of a fine light Substance, reddish without, and white within, scented, acrid, and commonly call'd, but falfely, Calamus Aromaticus. It is brought from Lithuania, Tartary, &c. the Leaves of the Root are long, almost like the Orrice. There is a falle Acorus, which is call'd, in Latin, Acorus adulterinus, seu Gladiolus luteis liliis, which is a Species of the Lilly or Flag, with the Yellow Flower; these grow in marshy and other watery Places: Sometimes this Root is us'd in Physick but rarely; both Sorts contain in them a good deal of exalted Oil, mix'd with vola-tile Salt. The true Sort and of a sharp Taste, stomachick, hearing and drying, of thin and subtil Parts, atrenuating, inciding and aperitive; it opens Obstructions of the Liver, Spleen, and Womb, relieves in the Cholick, and provokes the Terms. It may be given in Powder, the candied Root, Oil or Extract, from a Scruple to half a Dram; or in the Electuary Diacorum, which you may fee in the London-Dispensatory.

36. Of the true Reed, or Calamus Aro-

THE true Calamus, or rather the Thickness of a Quill, of two or three Foot

Parts of the Levant, from whence it is convey'd to Marseilles, sometimes whole, but generally in small Bags of about half a Foot long. Chuse the largest which is fresh, cleans'd from the small Root and the Branches, and made up in Bags; 'tis of a brownish Red without, and whitish within, furnish'd with a white Pith; which when it is stale the said Pith will turn Yellow; and after the Reed is broke, and you put it into your Mouth, it has an intolerable Bitterness. It is chiefly us'd for Venice Treacle.

Calamus Verus, seu amarus, the true or bitter Calamus, is a Kind Lemery. of Reed which we bring dry from the East-Indies in little Bales; it grows about three Foot high: The Stalk is reddift without, and full of a white Pith within; it is divided by Joints, on each of which grow two long green Leaves, sharp at the Ends; the Flowers rife on the Tops, disposed in Clusters or Yellow Plumes. It is a sweetscented Root, and fragrant, but somewhat bitterish in Taste, breakes white, and is a little knotty; this is used against Diseases of the Head, Brain, Nerves, Womb and Joints. There is prepared from it as from the Acorus, the Candied Root, the Confect, the Spirit, the Oil, the Extract, and the Electuary Diacorum, as in the Chapter before.

37. Of the Sugar-Cane.

SUgar-Canes are Reeds which grow Pomes, plentifully in feveral Parts of the West-Indies, in Brasil and the Antilles Isles. These Canes, or Reeds, when in the Ground. shoot out from every Joynt, another Cane of five or fix Foot high, which is furnish'd with long, green, straight, sharp Leaves. In the Midway of the Height of every Cane, is a kind of Beam which terminates it self in a Point, the Height or Top of which is in the Nature of a Silver-colour'd Flower, refembling a Plume of Feathers.

The Indians prepare the Ground, by dig-Bitter Calamus, is a Reed the ing about half a Foot deep, with their Spades, after the manner of Trenching, in which high, compos'd of Joints, from whence grow they put a Cane of about three Foot high, green Leaves, and little Clusters of yellow and then make a Rider of a Foot at each plant, 'till the Ground is full. At the End of fix or feven Months, which is the Time that they begin to raise their Beams, you must take care to cut for the Preservation of your Sugar, otherwise there wou'd be a great deal loft. These Sort of Beams is what the Savages very much use to make their Bows

28. How to make Sugar from the Canes.

THE Americans having cut their L Canes above the first Joynt, and Pomet. freed them from their Leaves, make 'em into Bundles, and carry them to the Mill, which is compos'd of three Rollers of an equal Size, and equally armed with Plates of Iron, where the Canes are to pass thro' them. The Roller, in the middle, is raised much higher than the rest, to the end that the two Poles, which are affixed cross-ways at the Top; and likewise the Beasts which are yoked to them, may turn about freely, without being hindred by the Machine. The great Roller in the middle is furrounded with a Cog, full of Teeth, which bite upon the Sides of the two other Rollers adjoining to it, which makes them turn about, grind and bruise the Canes, which pass quite round the great Roller, and come out dry, and fqueez'd from all their Juice. If by Accident the Indians, or whoever feeds the Mill with Canes, shou'd happen to have his Fingers catch'd in the Mill, they must immediately cut off his Arm, least the whole Body shou'd be drawn in and ground to Pieces: Therefore, as foon as they fee any one have his Finger or Hand catch'd, the Person standing by cuts off his Arm with a Hanger, and fends Word presently to have him cured. The Tuice falling into a Vessel which is below the Mill, and being drawn off, runs by a little Channel into the first Boiler, which holds about two Hogsheads, where it is heated by a small Fire, and set a boiling, in order to make a very thick Scum arife: The West-Indians keep this Scum to feed their Cattle with; this Liquor being well foum'd is put into . second Boiler, where it is fet to work again, by throwing on, from time to time, hot Water, in which they have beat up some . Muscavado form'd into Loaves, as we have

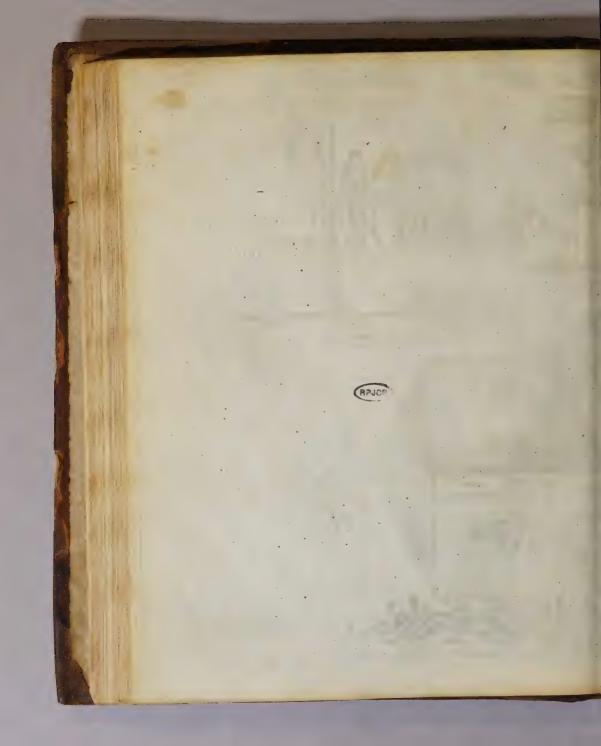
End for two other Canes, and so continue to Eggs; having been thus purified, they pass this Sugar thro' Strainers; and after it has done running, put it into a Third Boiler, which is of Brass or Copper, and then again upon another refining into a fourth Boiler; and when it begins to cool, and you find it rises to a Grain, pass your Schimmer, or Wooden Spatula underneath it, from the Right to the Left, to fee what Quality your Graining is of: The Sugar being thus ready, and while it remains hot, cast it into the Moulds, or Earthen-Pots, with Holes in their Bottoms, yet shut: At the End of twenty four Hours, which is the ordinary time the Sugar takes to incorporate, the Negroes carry the Pots into their Ware-Houles, and after they have opened the Holes, and pierced the Sugar, they fet the Moulds upon little Pots or Jars, in order to receive the S rup or Molosses which runs from it. And when the Syrup is run from the Sugar in the Moulds; you may afterwards cut it with a Knife; which being so done from the Pots, is call'd the grayish Muscavado Sugar; which as such is very little in use, but is the Basis and Foundation of all the other Sugars fold among

Of Cassonade, or Powder Sugar.

The Caffonade, or Sugar of the Leeward-Islands, is made from the Gray Muscavado run agair it has been clarify'd, ftrain'd, is cast into the Moulds, and fo prepar'd for Use, as we have been speaking before: After which they divide the Loaves, when taken out of the Moulds, into three Sorts, the Top, the Middle and the Bottom, which they dry ferarately according to their Fineness: The finest Powder-Sugar is that of Brafil, which is extreamly white, dry, and well graincu, of a Violet Tafte and Flavour. The Caffonade. or Powder-Sugar, is much in use among the Confectioners, above all that of Brafil, by reason that it is less subject to candy, upon which account the Confectioners value it the

The Sugar, which we improperly call Sugar of seven Pound Weight, because it as often weighs Ten or Twelve; is made of the Gray





described before. The Sugar of seven to the Body, by reason of its nauseous Tafte, it is, so much the dearer: The Use of which their Rum than the Muscavado Sugar. is to make choice Syrups, white Confects. and preserve Abricots, and the like, or make Prefents of.

Of Sugar-Royal, and Demy-Royal.

The Sugar call'd Royal, from its extraordinary Whiteness, is from the small white Sugar, or Powder-Sugar of Brafil, melted and cast into Loaf as the former. This Sugar-Royal is extreamly white throughout the whole; that is to fay, as fine at the Top as the Bottom, of a clear, compact, thining Grain, notwithstanding easie to break, which is the general Observation of Sugars, that they are well bak'd, and of a kindly Sort. We fell besides, another Sort we call Demy-Royal, which is a small Sugar-Loaf, very White, and wrap'd in a Blue Paper which comes from Holland.

eighteen and twenty Pounds, wrap'd in Pa- Coughs, Colds, Catarrhs, Althma's, Wheezings, per, made of Palm-Leaves; for which Rea- Go. than common Sugar; because being son it was call'd Palm-Sugar; which was a harder, they take longer time to melt white fat Sugar of a good Sort, and a Violet in the Mouth; and withal keep the Throat Tafte. We have, besides, another Sugar and Stomach moister than Sugar does. Put from the Maderas, but we shall say nothing of into the Eyes in fine Powder, they take away that, because we have it from several other their Dimness, and heal them being Blood-Islands much better.

Of Brown-Sugar.

This Brown Sugar is one Sort of the Muscovado, which they turn to Powder-Sugar, and is made of the Syrup of the Seven-Pound Sugar, after the same manner as the others formerly very confiderable, in that it ferv'd to put into Clysters, instead of Chrystal Mineral: At present several Apothecari s, very improperly, imploy it to make many of their work it to a Patte, in any Figure you fan-Syrups with, which must be very difguitful cy. The other Sort, improperly call'd Bar-

Pounds is distinguish'd into three Sorts; to and its near Alliance to the Molosses themwit, the White, the Second and the Last, selves, which some call the Syrup of Sugar, which is of a brown Colour at the Top of and which is of no manner of use in Phythe Loaf; the whiter the Sugar is, the better fick; great Quantities of it are used in Holftov'd, grain'd and dry'd, the more it is e- land to temper with their Snuff, and to fell Reem'd. The less the Moulds are, that is, to poor People instead of Sugar: I have been the less the Loaf is made, and the Whiter affured that Moloffes are better for distilling

Of White and Red Sugar-Candy.

The White Sugar-Candy is made of the White Lisbon Sugar, and White Sugar melted together, and boiled to a Candy thus. Dissolve your Sugar in pure Water, then boil it to the Confiftency of a Syrup, which pour into Pots or Vessels, wherein little Sticks have been laid in order; let it be put into a cool, quiet Place, four or five Days without stirring; fo will the Christal, or Sugar-Candy, stick close to the Sticks. Chuse your Sugar white, dry, clear and transparent; the very finest Candy we have comes from Holland, and it is fold for Four-Pence or Five-Pence a Pound dearer than that of Tours, Orleans, Paris, and other Places. The Red Sugar-Candy is made the same way with the White, except that this is made with Brown The Dutch formerly brought us Sugars of Muscavado. Both Sorts are better for Rheums, thor, as they cleanse old Sores, being strew'd

> Of Barley Sugar, White and Amber-colour'd. Sugar of Roses, Pastiles of Portugal, &c.

Barley Sugar is made either of white Sugar or brown: The first Sort, which is often call'd Sugar-Penids, is boil'd till the Sugar are made. The Ule of the Brown Sugar was becomes brittle, and will eafily large after it be cold. When it is boil'd to a height, cuit is upon a Marble, that is first luminated with Oil of Sweet Almonds; and afterwards

ley-Sugar, is made of your Cassonnade, or stinking Oil, I shall direct you to another coarse Powder Sugar, clarify'd and boil'd to Sort, which, ftrictly speaking, is not an Oil, a Toughness that will work with your Hands but rather a Liquor of Sugar, or an Oil per to any Shape; and is commonly made up in Deliquium. This is made by putting your little twisted Sticks: This Kind of Sugar is more difficult to make than the other, because of hitting the exact Proportion of boiling it to such a Height as they may work it as they please. Sugar of Roses is made of white Sugar clarify'd, and boil'd to the Confistence of Tablets, or little Cakes, in Rose-water, and fo cast into what Form you like best. The Pastiles, or Portugal Lozenges, are made the same way, of the finest Sugar that can be had, to which is added some Ambergrise, or any other Perfume, most grateful to the Maker's Fancy.

of Sugar-Plums.

There are infinite Variety of Flowers, Seeds, Berries, Kernels, Plums, and the like, which are, by the Confectioners, cover'd with Sugar, and carry the Name of Sugar-Plums, which would be endless to set down, and are too frivolous for a Work of this Nature: The most common of the Shops are Carraway-Confects, Coriander, and Nonparcille, which is nothing but Orrice-Powder cover'd with Sugar; and what is much in Vogue at Paris is your green Anise: Besides these, we have Almond Confects, Chocolare, Coffee, Barberries, Pistachia Nuts, &c. Orange Chips and Flowers, Lemon-peel, Cinamon, Cloves, and many other Roots, Barks, Fruits, Flowers, &c. Pastes, liquid Confections, and the like; many of which are useful in the Apothecaries Shops, as green Ginger, Oranges, Jelly of Barberries, &c.

Of Spirit and Oil of Sugar.

This Spirit is made by the Assistance of Spirit of Sal Armoniack, and Chimical Glasses, Furnaces, &c. and becomes an acid Spirit; which, after Rectification, is a powerful Aperitive, and proper for many Diseases, as the Gravel, Dropfy, and Dysentery. The Dose is as much as is sufficient to make an agreeable Acidity in any convenient Liquor prothat remains after Rectification, is a black rior in Strength to French Brandy, nor yet in

Sugar into a hard Egg, and setting it in a cold Place to run into a Liquor, the same Way that Oil of Myrrh is made; and is us'd to beautify the Face, or inwardly to remove Pains in the Stomach.

Sugar, in Latin Saccharum, or Lemery. Succharum, Zaccharum or Zuccharum, is an Essential Salt, of a kind of Reed call'd Arundo Saccharifera, or the Sugar-Cane, which grows plentifully in many Parts of the Indies, as in Brasil, and other Places. This

Plant bears on each Joint a Cane of five or fix Foot high, adorn'd with long, ftraight. green Leaves, and carries on its Top a Silvercolour'd Flower, like a Plume of Feathers.

The Juice of the Canes is made by preffing them thro' the Rowlers of a Mill, from whence there runs a great Quantity of sweet pleasant Juice, which being put into Boilers, the watry Part is, by the Force of the Fire. evaporated, till it comes to a Confiftency; after which they cast it into a Mixture made of certain Ingredients, fit to cleanse and prepare it for Graining. All the Time it is boiling, with large Copper Scummers they take off the Scum, which constantly rises in great Quantities, until it be fit to empty into Coolers, viz. till it arrives to its just Body: From the Coolers it is again shifted into Earthen Pots, with Holes in their Bottoms. and other Pots they call Drips, under them, too numerous to speak of, together with for receiving the Molosses; which, in about a Month's Time, will be separated from that which afterwards is call'd Muscavado-Sugar, being of a pale, yellowish Colour: This is then knock'd out of the Pots, and put into Casks, or Hogsheads, for Transportation.

This first Kind of Molosses is either boil'd up again to draw from it a Sort of duskish, pale-grey Sugar, call'd Paneels, or sent in Casks for England. From this Sugar there drips a second Sort of Molosses, which, with the Scum that arises in all the Boilings, together with the Washings of the Boilers, Coolers, Pots, and other Instruments, is preferved in great Cifterns, where it ferments: from which they distill that famous Spirit per to the Distemper. As the Oil of Sugar call'd Rum, a noble Liquor, not at all infe-

Goodness or Medical Virtues, the Flavour will be acid, and the Oil insipid upon the or Palatableness of it being set aside, having an Empyreuma, from a feetid Oil it acquires in the Distillation.

The next thing to be consider'd, is the Refining of Sugar, to wit, the Muscavado-Sugar; which is thus: They put it into Refining Coppers, mix'd with Lime-Water, where, as it boils over a gentle Fire, much Scum will arise, which is taken off constantly till it comes to a sufficient Consistency for beaten up, in order to clarify it; this being done, it is boil'd up to a proper Height for refin'd Sugar, and so turn'd off into Coolers, from whence it is put into fuch Draining-Pots eight or ten Days, then Clay, properly temper'd, is put upon the Pots, which is renew'd as often as Occasion requires: This forces down all the Molosses, so that in seven or eight Weeks Time these Sugars will be fit for Casking.

These Molosses, thus proceeding from Refin'd Sugar, are boil'd up again, and all the former Work repeated; from whence comes another Sort of White Sugar, call'd Bastard White: From this Sugar there drips a second Sort of Molosses, fit for nothing but the Still to make Rum of; it is also to be observ'd, but you have it some ways or another; for as much as the Refined Sugar wants of its first Weight, you have it in the Scum and the Moloffes, or Recrement running from it. After this Elaboration of Sugar for Refining it is over, they put up in Casks or Hogheads that which is call'd Powder-Sugar, or make into Loaves what they call Loaf-Sugar; both of which is esteem'd in Goodness, according to the Number of Times they have been refin'd.

When Sugar has been but once refin'd, it is a little fat or oily: Now to refine it farboil'd as before directed, taking off the Scum all the while, So. The Sweetness Sugar has, is thought to proceed from an effential, acid

Tongue, because it makes little or no Impression upon the Nerve of Tasting; but when the Acid is entirely mix'd with it, the Edges or Points of the Acid penetrate the Pores of the gustatory Nerve, and, by opening them, carry in the oily Particles, and make them also penetrate and irritate the Nerve, whereby the Sweetness of the Taste

is produc'd.

The Powder-Sugar, or that which is less mixing it with the Whites of Eggs well refin'd, makes a sweeter Impression upon the Tongue than the Loaf-Sugar, or that which is more refin'd, because it contains more oily or fat Particles, whereby it remains the longer upon the Taste: This makes some preas afore-mention'd, with their Drips: When fer the courser before the finer, for Use and those Pots have stood draining or dripping Sweetening. Sugar was first known or produc'd in the East-Indies, afterwards in Barbary and the African Islands, as the Maderas, Canaries, &c. then in the West-Indies, as Jamaica, Barbadoes, Nevis, Antegoa, Montserrat, as also in the Spanish Indies; lastly, in Europe, as Spain and Portugal, but not in that Plenty as it is produc'd in the West-Indies. If you make choice of it from the Place, that from the Maderas was formerly accounted the best; that from the Canaries next, and that from St. Thomas's last; but now our fine Jamaica and Barbadoes Sugar is inferior to none; and next to them is reckon'd the that little or nothing is wasted in the Refining, Lisbon Sugar, which is fatter, and not so white. If you chuse it for Colour, the whitest is the best; then the next to white, is that of the Cream-Colour, or pale Yellow; and, laftly, the Red. If you chuse it from the making, the treble refin'd is best, and that which is form'd into the Loaf, the whitest of which will look like the Driven Snow.

It is good for the Breast and Lungs, to smooth their Roughness, take away Asthma's, Hoarseness, ease Coughing, and to attenuate and cut tough Flegm, afflicting the Fibres of those Parts: It is very profitable for the Kidneys and Bladder, and in all the Cases ther, it is dissolv'd again in Lime-Water, and afore-mention'd; but is reputed bad for such as are troubled with Vapours and Hysterick Fits, and therefore such Persons ought to avoid the Use of it. Refin'd Sugar is the Salt, mixed with some oily Particles, of sharper, and better to attenuate, cut, and which it consists; for if, by Distillation, we cleanse; but the unrefin'd, to levigate and steparate the oily Parts from the saline, nei-lenify, and so the better for the Lungs; but ther of them will be sweet, but the saline being constantly us'd, rots and decays the

fects and Sweet-Meats, made of Sugar; the Effence of Sugar, and the like. chief of which are, first, Sugar of Roses;

Teeth, and makes the Gums scorbutick. 2dly, Sugar of Violets; 3dly, Tincture and There are many Preparations, besides Con-Liquor, acid Spirit and Oil, Sugar Penids,

BOOK the Third.

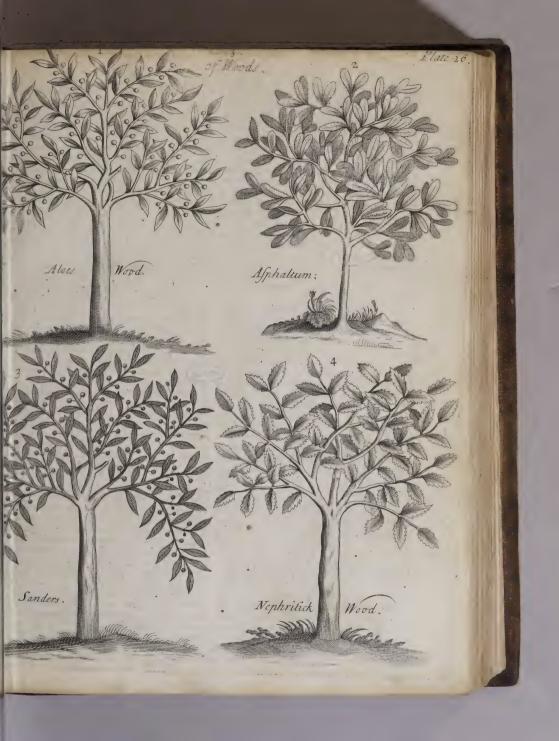
Of WOODS.

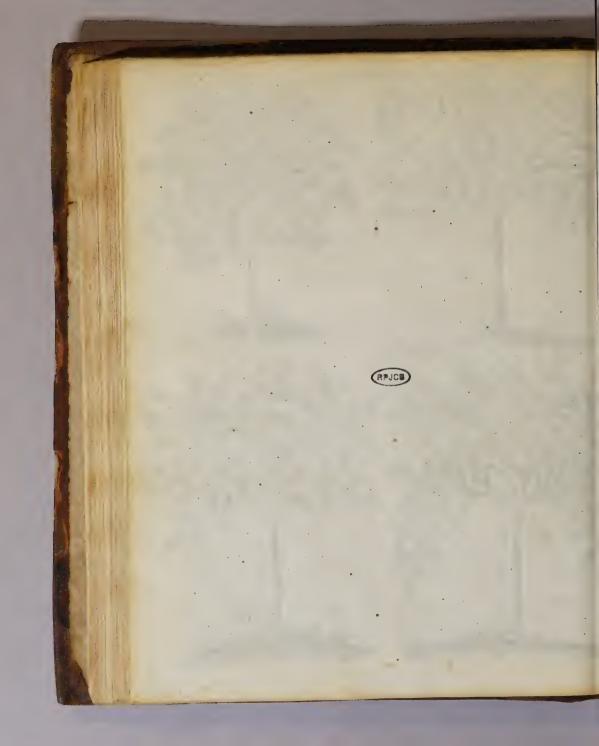
I. Of Wood of Aloes.

F all the Woods fold in the Shops, we have none more Pomet. precious, more valuable and rare, than the true Wood of Aloes, or Xyloales; upon which Account it is very little known, and every-one is liable to mistake the Wood, which makes it easy to be counterfeited; so that it is a difficult Matter to know it positively, it being describ'd so differently by different Authors: And I cannot think any more mistaken than those who write like Mr. de Furetiere, who fays, That Aloes is a large Tree that grows in the Indies ten Foot high, that the Trunk is of the Thickness of a Man's Thigh, on the Head of which is placed a vast Heap of thick indented Leaves, large at the Bottom, which narrow themselves to a Point, and are four Foot long. The Flower is red intermix'd with yellow, and double like a Julyflower; it is supported by the little Branches which arise from the Trunk, with the Leaves, among which they are hid: From the faid Flower comes a Fruit, round like a large Weight, white and red: They take the Juice from the Leaves, by slitting them with a Knife; and they gather them with the Calabasses or Gourds, which, when dry'd in the Sun, are prepar'd to make Rofin

of. This Wood is spotted, scented, and bitter. The Bark is so curious, that it resembles a Skin that is of a changeable Colour.

There are leveral Sorts of it, bur the best is the Agallochum of India, which comes from Calecut: The finest is the black Kind, of a changeable Colour, full, heavy, folid, and thick, which cannot be whiten'd, and is difficult to set on Fire. I do not know whether Mr. Furetiere, in his Description before, does not confound the Plant which produces the Aloes, with the Tree which affords us the true Wood of Aloes. There are others which pretend to affirm, we cannot have the true Wood of Aloes, and that it grows not in this Terrestrial Paradise, it having been swept away by the Deluge: And others will not allow it us, because it is not produc'd among us, except in Deferts, and upon inaccessible Mountains; not only from their Height, but because of the Wild Beasts that inhabit among them, as the Lion, the Tiger, the Panther, and the like; besides a thoufand other idle Stories that are told about this Wood: To confute all which, I shall only tell you, that the Embassadors from the Kingdom of Siam brought of this true Wood to present to the King of France now reigning, as well wrought as unwrought; among the reft, a Bason, with its Salver, proper to wash the Hands in, made at Siam, after the Mode of that Country. This Bason, tho' of Wood, is





round Fruit, like our Cherry. They bring a Quantity of it from Surat; but the most stinguish'd into larger and lesser Pieces.

It is observable, that the Trunk of this Tree is of three Colours, which are no other than different Parts taken from the Thickness of the same Substance: The first Wood, which lies immediately under the Bark, is of a black Colour, folid, heavy, and almost like black Ebony; and by reason of its Colour, the Portuguese call it Eagle-Wood. The Second, which is a light veiny Wood, like rotten Wood, and of a tann'd Colour, is what we call Columback, or the true Wood of Aloes. The Third Sort, which is the Heart, is a precious Wood of Tamback, or Calamback; But the great Scarcity, and high Price of it, is the Reason why I shall say no more of it, having never feen any of it.

We ought to chuse the Columback-Wood of a shining Dye, as green withour as a Leek, and of a light Yellow within, bitter in Tafte, especially when it is held sometime in the Mouth, from whence it takes the Name of Aloes-Wood, because it has a Bitterness like that of the Aloes, but is lighter and more porous, like rotten Wood; and when put into the Fire, will burn like Wax and yield a sweet Smell.

This Wood of Aloes, when dried, is of no other Use in Physick, than that it is a strong Aromatick: As to the Eagle-Wood, it is of no Use in France, and it serves the Indians only to make their small Wares with; besides, it is too scarce in France to make any thing of it, which is quite contrary to the Notion of those who have writ of it, and say, that it is very common. As to the Columback-Wood, or true Aloes, we have Quantities enough of other Kinds brought to us, which bear the same Name; but as it is impossible for me to discover all the Differences, I shall satisfie my self to inform you that you ought to re-

more efteem'd than if it had been of massy in Shape and Figure, in that the pretended Gold, because made of the Tree of the true Wood of Aloes is in great heavy Pieces, as Aloes Wood growing at Banzam and in China, well red as green, and likewise of several and which is of the Size and Shape of the other Colours which makes it easier to know Olive-Tree, having Leaves something after the Difference, in that the true Columback is the same fort; after which grows a little commonly in flat light Pieces. Some People will have it that the Lignum Vita, which is a Quantity of it from Surae; but the most at Fontainebleau, and in the Royal Garden resinous of it is most valued, and it is di- at Paris, is the Tree that yields the Aloés-Wood; but I have prov'd it otherwise, in letting the Wood lie in the Ground three Years; at the End of which I have taken it out, and after having expos'd it to the Air some time, the strong Smell and Taste it had in Life, has been quite loft, and it has become extreamly light, of an infipid Tafte, and white without and within.

> Wood of Aloes, is brought from Lemery. Bantam in the East Indies, where they call it Columback; it comes to us in Chips, and is of a most fragrant Smell, and darkish Colour; the knotty refinous and blackish Sort, which is many times full of black Refin like Aloes, is reckon'd the best; or that which is of a blackish Purple, with Ash-colour'd Veins, of a bitter Taste and

Aloes, Agallochum, Xyloaloes, or

heavy: The chief Sign of its Goodness is, that the Chips being put into Water will fwim, and when burning on Fire-Coals. they will sweat or fry, afford a sweet Scent, and leave Bubbles behind them, not eafily vanishing. It is hot and dry, Cephalick, Neurotick, Stomachick, Cardiack, Alexipharmack, strengthens the Brain, Heart, Nerves, Spirits and whole Body; is excellent against Faintings and Swoonings, and kills Worms by its Bitterness; Dose in Powder, half 2 Dram to a Dram. The Chimical Oil is likewife us'd like that of Rhodium, and fometimes internally to the same Purposes as the Wood.

2. Of Aspalathum or Rose-Wood.

HIS Aspalathum is a Wood, which was no otherwise known Pomer. to the Ancients, but for the true Aloes-Wood, and might be taken for the same, ject all others what soever, that are not the at present, if we had not been inform'd supposed Wood we have been speaking of, otherwise, from the Accounts and Relations which is entirely different from others, both of other Persons, upon which we have made

Enquiries into the Bottom of the Matter; and it is not without some Diligence we have clear'd up the Truth, upon which I may venture to say, I understand what we sell for Aspalathum. There are three Sorts of Wood bears this Name: The First is a blackish Wood, which I believe to be the true Eagle-Wood. The Second is a Wood fomething bitter of fome small Use in Physick, by reason of throughout, heavy, oily, full of Veins of different Colours, and all mixed together make it a reddish Wood; it is cover'd with a Grey Bark, thick and very rugged. As to the Figure of the faid Tree, the Leaves, Flowers, Fruit and Country where it grows, I know no farther than what I have faid, whether this be the false or true Aspalathum; but it is what is most receiv'd for fuch, by those who are suppos'd to know it the best, and which we fell for the same.

The Third Afphalathum-Wood is known, and common among us, when the two beforemention'd are unknown and scarce; this Third Sore is that we call Rhodium, or Rofe-Wood, because it has a Smell altogether resembling that of Roses. The Rose-Wood is of the Colour of the Leafe, which is brought from feveral Parts of the Levant, but chiefly from the Isles of Rhodes and Cyprus, from whence it takes the Name

of Rose or Cyprus-Wood.

certain that there are two Sorts of Role-Name, without making use of that of Cyprus; for the two Trees fo exactly resemble one another in Height, Size, Bark, Leaves, Flowers and Smell, that most part of the Inhabitants mistake one for the other: I have, notwithstanding, seen some curious People of Guadaloupa, which have call'd this Wood, which the Inhabitants of Martinigo call Rofe-Wood, Marble-Wood; because the Heart of the Wood is stain'd like Marble, with White, Black and Yellow, which is the only Distinction I cou'd observe. This Tree hairy and whiter; it bears large Clusters of small white Flowers, and after them little smooth black Seeds; the Bark of the Wood, wardly against Obstructions in the Kidnies is whitifh, and almost like the young Oak: or Bladder, freeing them from Sand, Gra-

'Tis troublesome to bear the Smell, because it is so sweet, that the Rose cannot compare with it. This Wood loofes it's Smell in time; but it recovers it again upon being fresh cut, or ftrongly rub'd one Piece against another; it is likewise very good to build withal.

This Wood is us'd to make Beads of, and is its fine Smell, which is serviceable to the Distillers to make Rose-Water, or at least to give their Rose-Water a good Scent: The Surgeons and Barbers use it in Decoctions and Tinctures for their several Purposes : Some People imploy this instead of Citron Sanders, and after it is reduc'd to Powder mix it up in Pastiles for burning. The Dutch draw a white Oil from it very odoriferous. and which they transport abroad for Oil of Rhodium, and which we fell upon feveral Occasions, as to the Perfumers and others. 'Tis observable that this Oil, when new, is like Oil of Olive; but after some time turns of a dark Red. By Distillation it yields a red Spirit, and a black fœtid Oil, which is proper for curing of Scabs and Tetters. There are several Sorts of the Af-

palathum that are not diftinguisha- Lemery. ble, but by the Curious, as the Aloes-Wood, that's call'd the Eagle; and the Lignum Rhodium, which is so call'd, not that it bears This which we call Rose-Wood of Guada- Roses, or is a Rose-Tree; but from the Flaloupa, is properly that which the Inhabitants vour and Fragrancy of the Wood, and the of Martinigo call Cyprus-Wood. It is very odoriferous Oil it yields. This is brought from the Levant, and fome from the Cana-Wood which we confound together by that ries; the best is the fattest or most oily, of a deep Yellow Colour, inclining to Red, ftrongfcented; if broken, and of a compact heavy Substance. This Wood contains two profitable Bodies, the one spirituous and watery, the other oily and fulphureous; both which are very subtil and volatile. To make the Oil, chuse the weightiest and best scented Wood rasp'd finely, of which take four Pounds ; Salt-Peter one Pound ; insuse them in Rain-Water eight or ten Days, and draw off the Oil in proper Vessels : There is, at the same time, a Water drawn from grows very high and straight, with long thence, which may be used as Rose-Water. Leaves like the Chesnut, but more pliant, for Persumers, and for any Vehicle where proper: The Oil which is clear, fair, yellowish, and of a fragrant Smell, is used in-

the Passages. You may make it into an Eleofaccharum with refined Sugar; and then diffolve it in its own Water, or any proper Diuretick; and so it is used with good Success in Gargles, and to cleanse and cure Ulcers in the Mouth, or other Parts of the Body. It is cephalick, neurotick, car-diack, antispassmodick and arthritick, and call'd Taffety Sanders, or those of Constantimay be given from three Drops to ten or Uses, is accounted one of the strongest vegetable Persumes, and holds its Odour the longest.

2. Of Sanders.

THE Sanders are three Sorts of Woods of different Colours, Romet. Smell and Figure; all three as I have been affured coming from the same Tree, and have no other. Difference than from the different Countries, where they grow. This Tree grows about the Height of our Cherry Tree, having Leaves made like the Mastich; it bears a small Fruit the Size of a Cherry, Green at first, and Black when ripe; after which it easily falls off the Tree, is of an infipid Tafte, and no Value.

The Yellow Sanders are brought to us from China and Siam in Billets, freed from the Bark; hence it was the French, when they return'd from Siam, in 1686, brought with them a good Quantity: Chuse the heaviest Wood of a good Scent and Yellow, from whence they were call'd Citron Sanders, which fignifies Yellow; but take care, at the fame time, you be not impos'd upon with the Citron-Wood from the same Place. The Yeland the Perfumer.

The white Sanders comes nearest to the Yellow, but not having the Colour, or the Smell, it makes a vast difference. This Wood is brought in Billets, divested of its Bark, from the Indies: Chuse such as is heaviest, white, and of the best Smell you

The Red Sanders are brought to us in thick long Billets, from the Maritime Places on the Coast of Cormandel: Chuse that which is grows, besides, in these Isles, another Canblackish without, red at the Bottom, brown dle-VFood, which has such Leaves, Flow-

vel and flimy Matter, that load and stop up within, and hard to cleave; of an insipid Taste, and almost no Smell; and take care you do not get Coral-Wood in its Place, which I shall mention by and by: This is fometimes used with the two former, and other Uses, according to various Occa-

nople, which serve to give a red Stain, boil'd twelve. This Oil, befides all its internal in Water with any Acids, as the Red San-

Of the Citron-Wood.

The Citron-Wood, which the Americans call Candle-Wood, because it gives a Lustre or Brightness in cutting, and serves them for Lights; is the Trunk of a large thick Tree, that grows very common in the Leeward Islands. This Tree is very beautiful to the Eye, having many large and long Branches, full of Leaves, like those of Laurel, but bigger, and of a more shining Green; the Flowers like the Orange, of a Jassemine Smell; after which grow little black Fruit, of the Size of Pepper: It is the Trunk of this Tree, that the Reverend Father Du Tertre falfly imagined to be the true Tellow Sanders, and which afterwards gave Occasion to certain Druggists at Rollen to buy of the Company, and sell it boldly again for true Tellow Sanders, as well to those who understood it, or wou'd buy without feeing it, or upon their Words for the true Wood, hence it got the Name of Citron-Wood, or Counterfeit Sanders. The Cheat of this is easie to discover, in that the true Sanders taftes and smells sweet and agreeable, being not so gross and resinous; but on the contrary the Citron-Wood, which low Sanders are most used by the Druggist is heavy, clouterly and oily, has a strong Smell like the Citron, from whence it derives its Name; and further, the Billets of the true Sanders weigh not above a hundred Pounds, and those of the Citron near a Thousand: This Wood is of no Ute in Phylick, but is very useful to work into proper Urenfils; for after it has been expos'd fometime in the Air, it will pollish like the Cocoa,

> This Wood likewife bears the Name of Fassemine-Wood from its Flowers. There

ers and Fruit as the Citron-Wood, except agreeable Odour, heavy and knotty. Both that the Flowers are more oily, much this and the White are used in Faintings, thicker and rounder; but as this Wood Swoonings, Palpitation of the Heart, Obcomes not to us, I shall say nothing surther. Father Du Tertre fays, That this Tree is fcarce, and grows no where but on the Seafide, and that like a Kind of Aloes-Wood. He observes likewise, that this Tree yields a very odoriferous Gum, and that the older the Tree is the better it smells; and that the Savages make no other use of it but for Lights; that they use the inner Rind of the Bark, from whence they press a Juice, valued by them as a Sovereign Remedy, for Inflamations of the Eyes.

Of Coral-Wood.

Besides the Candle-Wood, we have brought to us, from the Leeward-Islands, a certain red Wood which they call Coral-Wood: 'Tis with this Wood they counterfeit the true red Sanders; but that which makes it not ditficult to discover the Difference is, that the Coral-Wood is of a shining Red, light enough and stringy; but the true Sanders are red thorow, without threads, and very

The Americans use the Coral-Wood for several Sorts of Work: Besides this, in these Ifles there grows two other Kinds of Trees which bear the Name of Coral, because their Fruit are red like that; except that on their right Shoots they have a little black Spot, and the Fruit is what we call, and fell by the Name of the red American Pease, which are extreamly bitter; and some pretend there comes a Juice from them that has the Quality of soldering Gold and Silver like Borax.

Farther, Du Tertre says, that the Red-Wood of these Isles, every five or fix Miles Distance, grows of different Colours; some having more, others less; and that they are very full, heavy, folid, and excellent for making the best Joiners Work; the Wood being, for the most part, not subject to decay.

Santalum Citrinum, Album vel Rubrum, the yellow, white or red Sanders are exotick Woods, brought from both the Indies, of a very fragrant and I weet Smell. The Yellow is to be chose be-

structions of the Liver and Spleen; is good against Vomiting, and drys up Catarrhs : outwardly the Fume prevails against the Head-ach, ftops Fluxes and Rheums of the Head, with other preternatural Deflux-

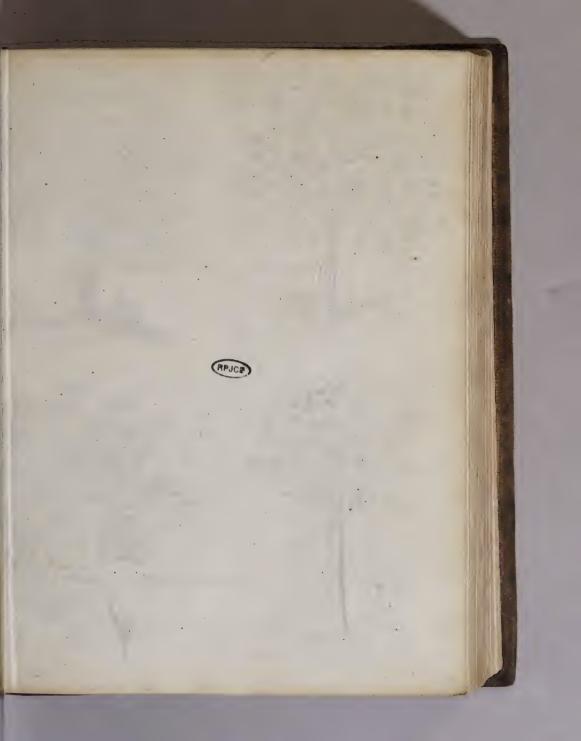
The Red Sanders is also brought from the Indies, being a red heavy Wood, and commonly fold in the Apothecaries Shops, in Powder: It is cooling and more aftringent than any of the rest; is used in Catarrhs to ftay thin Rheums falling down upon the Lungs, and to abate the Heat of Fevers, to Stop Fluxes, and the Profluvium Seminis, with the Gonorrhea in either Sex: But the chief Use of it, this Day, among us, is to colour Medicines with, as Lucatellus Balfam, and other Balfams, Tinctures, and the like.

4. Of Nephritick Wood.

HE Nephritick Wood is brought to us from New-Spain, chiefly the Pomet. Kingdom of Mexico, whence it is call'd Coult and Tlapaleypatly, and by us Nephritick, by reason it is a Sovereign Remedy in Stone, Gravel, and Difficulty of Urine. 'Tis a Tree as large as our Pear-Tree, having Leaves like Chich-Peafe, but

much less.

Chuse your Wood well freed from the thick Bark, which is of a bitterish Taste, and yellowish Red, and being put into a little cold Water for some Days, strikes a fine Skycolour'd Blue, which is a certain Sign of its being true. They fell in the Room of this a red Ebony, or Pomegranate, which is readily distinguish'd from the other, in that, by infusing it in Water, it gives a yellow Colour, like another Wood, we have brought to us from the Indies and Brafil, the Name of which we have not yet learn'd; besides, you ought to reject all forts of Woods that are fold for the true Nephritick, if they will not yield a blue Tincture. This Wood, infus'd in Water, is frequently us'd for their Drink, and to mix in their Wine, for the Cure of the Stone and Gravel: Those who would fore the rest, and that which is of the most add to the Virtue of the Wood, put Radish-Water





Water thereto with a little Salt of Wormwood, that is to say, about half a Dram to a Glass.

The Nephritick Wood is thick, Lemery. without Knots, white without, and blueish within, which, by Infusion, makes a Sky-colour'd Liquor; therefore, to avoid being deceiv'd when you buy it, scrape some of the inner Parts of the Wood, put it into Water, and let it stand four or five Hours: if it turns the Water into a blueish Tincture, it is right and good; but if not, and of a yellow Colour, it is false. It grows in America, and is brought from Mexico, and other Places of the Spanish West-Indies. It is call'd Nephriticum, because it is a Specifick in Diseases of the Reins and Bladder, Sebroder fays, it grows like a Pear-Tree, and is a Kind of Ash. It is hot and dry, opens Obstructions of the Liver, Spleen, Reins and Womb: cures all Stoppages of Urine, whether in the Kidneys, Ureters, or Bladder, bringing away Sand, Gravel, Slime, or other tartarous Matter generated in those Parts.

7. Of Lentisk, or Mastick Wood.

Pomet. THE Lentisk is a Tree which has Leaves like Myrtle; after which it bears Flowers, which produce small Berries like Bunches of Grapes, green at first, and blackish afterwards as they ripen, and are attended with a little Husk, or Bag, full of Liquor, from which little flying Infects are generated, as from the Scarlet-Grain, or Kermes Berry.

These Trees are very common in Egypt and the Indies, and particularly in the Isle of Chio, where they are industriously cultivated and watch'd, left when they are cut, fuch as are not the proper Owners should run away with the Mistick that flows from them. They plant a great many of these Trees in Italy, and the Italians make an Oil of the Berries, after the same manner as they do the Oil of Bay-berries. This is us'd to the fame Intentions as the Leaf and the Wood; the last of which they work into Tooth-pickers in Provence and Languedoc.

Chuse your Lentisk Wood heavy, compact,

gent Tafte, and adora'd with Leaves if poffible.

Of Mastick in Tear.

The Mastick in Tear, so distinguish'd from the Mastick which is made of Rosin and Brick-Powder mix'd together, is a refinous Gum which drops during the great Heat. without Incision of the large Branches, and the Trunk of the Lentisk; and sometimes likewise, after having been cut, the Tears fall from the Tree into a Receiver fet for that Purpose.

Chuse such as is in the largest Tears, and which, being chew'd, becomes like white Wax: The best is that of Chio, being larger. and of a more ballamick Tafte, than that which is brought to us from the Levant, by the way of Marseilles, which is almost the only Sort they have in France. Mastick is much us'd in Physick, and, among other Things, to ease the Tooth-ach; and is us'd to several other Purposes, as the making of Varnish, &c. The People of the Levant-Trade deal with us particularly in mixing their Mastick so as the worst lies at the Bottom, and the best at Top; but they will not fell the one without the other.

Lentiscus, the Lentisk, is a Tree full of Branches, fomerimes large, Lemery,

and fometimes small; which are pliant, flexible, and cover'd with an Ash-colour'd Bark. The Leaves are like those of the Myrtle, ranged by Pairs on the Side, and at last terminate with a fingle Leaf, always green, of a strong Smell, but not at all disagreeable, of a smart, astringent Taste: There grows oftentimes upon the Leaves certain little Bags or Bladders, fill'd with a Liquor. The Flowers grow upon Stalks arising from the Leaves, like Grapes, reddish in Colour, tending towards a Purple; from whence arises the Fruit, which are small round Berries, black when they are ripe, and of an acid Taste, in each of which is contain'd a little longish Kernel, hard and black, having a white or green Pith in it. The Wood is brought dry to us, and should be chose fresh. difficult to break, heavy, and not subject to be carious or spongy: It contains a and firm, that is tough, or hard to break, great deal of Oil, Flegm, and likewise grey without, and white within, of an aftrin-essential and fix'd Salt; is aftringent and strengthen and preserve the Gums.

The Refina Lentisci, or Mastick, is produced from this Tree, growing in Syria, &c. and brought to us out of Turkey, from Smyrna, and Aleppo; but the best is from Chio, which is of a light Colour, or white Yellow, clear, and almost transparent, free from Dross or Filth, in Grains, Tears, or Drops, and sweetscented, bright, pure, and friable, being eafily reduc'd to Powder. It is a Gum-Rosin, faid, by fome, to come from the same Tree with the Chio Turpentine: It is sometimes adulterated with Frankinsence, and Rosin of the Pine-Tree; but the Smell will eafily discover the Cheat: The green-colour'd, blue, and impure, are not good; and the black, like Bitumen is nought. It is hot and dry, subastringent, and strengthens the Stomach and Head, and is chiefly us'd against Vomitings, Loathing, and Fluxes of the Bowels: It corrects sharp Purges, hinders Vapours arising from the Stomach, which hurt the Head; Arengthens the Nerves, cures spitting of Blood, Coughs, Colds, Catarrhs, and a Stinking Breath; by chewing, it draws away Flegm from the Brain, and is u'd in a Plaifter to the Temples for the Tooth-ach; in a Cataplasm, for the Stomach, and as a Dentifrice for the Teeth. Dose, a Dram to two Drams, in Powder, for the Fluor Albus, or Gonorrhaa.

6. Of Tamarisk.

THE Tamarisk is a Tree of a moderate Size, which grows plentifully in Languedoc, having very small Leaves; the Fruit like Grapes, of a blackish Colour, which the Dyers use instead of Galls.

Chuse the Tamarisk Wood, with the Bark white without and within, of almost an infipid Taste, and without any Smell. They use it for Diseases of the Spleen, as well as the Bark, and make little Casks, Cups, and Dishes of it, which are call'd Tamarisk Ware. Those who are troubled with the Spleen, use to fill these little Casks with good Wine, and, after it has stood some Time, drink it for their common Liquor; and likewise they use the Cups and Dishes for the same Purpose, to drink out of. From this Wood is

cordial, refifts Poison, and is excellent to made a white Chrystal Salt, call'd Tamarisk Salt, which is appropriated to the Cure of the Spleen.

Tamariscus, Tamarix major, sive Arborea Narbonensis, the greater Lemery. Tamarisk, or Narbone Shrub. It is a Tree of a middle Size, whose Bark is rough, grey without, and reddish within: The Leaves are small, long, round, flender, very like those of Cypress, of a pale Green Colour; the Flowers growing at the Top of the Branches, dispos'd in Clusters, little, white, and purplish, each one being compos'd of five Leaves, which is succeeded by a lanuginous Fruit, that contains blackish Seed: The Root is thick, woody, and divided into several Branches. This Tree grows chiefly in the hot Countries, as Dauphiny and Languedoc, near Rivers, and other watry Places: It flowers three times a Year, in Spring, Summer, and Autumn. All the Parts of Tamarisk contain a great deal of Salt and Oil. The Bark, Root, Leaves, and Flowers are all us'd in Physick, to open Obstructions of the Spleen and Mesentery, excite Womens Courses, and to attenuate the tartarous and melancholly Humours.

7. Of Sassafras.

THE Sassafras, or Cinnamon Wood, or Panaume by the Indians, is Pometa Tree very beautiful to the Eye, which grows plentifully along the Coasts of Florida, where there is entire Forests of it. This Tree has a very straight Trunk, on the Top of which there are leveral Branches charg'd with green Leaves, resembling those of the Fig, which the Inhabitants make use of to cure Wounds withal.

Chuse your Sassafras with the Bark on. thick and rough, as being the best Part of the Tree, as well from its acrid Taste, as its strong aromatick Smell, which considerably exceeds that of the Wood, especially when the Tree is standing: Upon this Account it was, that the first time the Spaniards landed in Florida, they cut down a good Number of these Trees, because of their very agreeable Scent, which they might smell two Leagues distance.

Several

to the Trunk and the large Branches, and that not unreasonably, because it is much more fragrant than the Wood, and commonly lighter, reddish without and within, easy to break, of a very strong aromatick Smell After-birth; after which, it strengthens the and Tafte: The Bark is likewise better than Parts, and invigorates the Instruments of Gethe Root, and the Root better than the Wood. When they cut or rasp this Wood for Use, the Smell is so strong, that it occasions the Head-ach in those that work in it, and likewise in those that use it; which has much lessen'd its Credit.

Saffafras is a yellowish, fragrant Lemery. Wood, of a Taste something acrid and aromatick, almost like that of Fennil: It is brought to us, in large Morfels, from Florida, New-Spain, &c. where it grows; and where the Indians call it the Palm-Tree : and the French give it the Name of Sassafras, by which it is call'd by the Spaniards to this Day. The Fruit of this Tree is longish, wrinkled, and hangs by a long Footstalk: The Roots are extended along the Ground, bigger or less, according to the Size of the Tree: Which is call'd Safsafras, by a Corruption from Saxifrage, which fignifies that it has the same Virtues with Saxifrage, that is to fay, it is incifive, penetrating, aperitive, sudorifick, and cardiack; it refifts Poison, strengthens the Sight and the Brain, and is good in the Sciatica, Gout, Catarrhs, taken in Decoction or Infusion. by way of a Tea, &c. It is the Opinion of some, that the Sassafras, call'd the Ague-Tree, is rather a Root than a Wood, brought out of the West-Indies, as New-Spain, &c. It is of a pleafant Smell, and comes in pretty long Logs, as thick as ordinary Billets: The Bark is red without, and cuts of a Flesh-Colour within: Its Taste is a little sharp, but aromatick, abounding with much volatile Salt; from whence it is evident, that it has great Virtues. The smallest is to be chosen for Distillation, and must have its Rind about it, for that it possesses more of the ætherial Oil and volatile Salt and Spirit, than the internal Substance of the Wood. It is a most admirable Sudorifick and Diuretick, never missing of its Effects by those two natural Ways of Evacuation; for if the Sick will not yield to Swearing, it often works off by Urine, being full of Spirit and Salt, and

Several People prefer the Bark of this Tree therefore is a great Specifick in all the aforemention'd Cases; besides which, a strong Tincture, or the Chymical Oil, is commonly given to facilitate the Labour of Women in Travail, and to expell both Birth and neration. Dose, three Drops, to 10 or 12.

8. Of Guajacum.

HE Guyac, Guajacum, or Lignum fanctum, Holy-Wood, grows Pomet. plentifully in the West-Indies, and is brought to us from thence in large long Billets or Logs, some of which weigh Four or Five Hundred Weight. This Tree is about the Height of our Walnut-Tree, bearing Leaves long or round, according to the different Species, which distinguishes the Tree to be Male or Female: After the Leaves, come Tufts of blue Flowers, in the Shape of Stars, furnish'd each with a little brown Bud, of the Size of a Hazel-Nut, in which is contain'd another little Fruit, of an Orange-Colour.

It is the best Sort of Wood we have for Turnery Ware, especially for making Bowls for the Bowling-Green, Mortars, Peftles, Rowlingpins, &c. The Surgeons, and others, who use it in the Venereal Disease, chuse the Shavings or Raspings to make their Prisans and fudorifick Drinks. There is made of this Wood, a Flegm, a Spirit, and black Oil, which is thick and ferid; and that which remains in the Bottom of the Retort, black as a Coal; but being made into a Lixivium, or a Lye, there is extracted thence a Salt. They make also a Resin and Extract of it, as they do of Falap.

The Bark of the Tree is likewise of great Use in the Cure of the aforesaid Disease; in which case, chuse the heaviest, hardest to break, grey without, and whitish within, of a bitter and disagreeable Taste. We have brought from the Indies, large Pieces of Guin, fo like to Colophony, or dry'd Pitch, that it is almost impossible to distinguish it, but by the lighting it, whereby it will afford a sweet Scent, when burnt; and, on the contrary, the Colophony will smell of Turpentine. It is one of the greatest Sudorificks we know at present.

hence, because they bought it from the Turn-Kinds of Woods; and had advanc'd the Price from a Penny to Eighteen-pence a Pound: But this Wood has nothing of the Properties of the Guajacum, but is fo well known in France, that they make several Sorts of Work of it. The best comes from Spain, and some Parts of France, but chiefly Champagne. A Spirit, and black Oil, is drawn from this by the Retort; and is rectify'd as that of Guajacum.

Guajacum, sive Lignum Sanctum, Lemery, is a Tree the Size of a common Walnut-Tree, whose Bark is thick and gummous, and eafily parts from the Trunk: Its Wood is hard, firm, weighty, and marbled with brown, red and black, of an acrid Tafte: The Leaves are longish, or almost round: The Flowers grow in Clusters, of a pale Yellow Colour, hanging upon green Stalks: These are succeeded by a Fruit like small Chesnuts, round, solid, and brown; in which are contain'd another little Fruit or Seed, of an Orange Colour. This Tree yields, by Incision, a refinous Gum, of a reddish brown, clean, shining, friable, fragrant, and of an acrid Tafte, call'd Gum Guajacum.

The Wood, Bark, and Gum, are all us'd in Physick; every one of which contains a great deal of effential as well as fix'd Salt, Oil and Gum. They are esteem'd good Sudorificks, and are given in the Venereal Difease, Rheumatisms, Catarrhs, Gouts, Scurvy, Dropfy, and other Diseases, which proceed from Weakness, Obstructions, or Diseases of the Viscera. It is a Wood which is white without, and of a greenish Yellow, or blueish Green fometimes within, the heaviest being the best. It is brought from Jamaica, and several Places of the Spanish Indies, in Pieces fo large as to make Bowls of them, which hold from 3 to 20 Quarts.

9. Of Cedar of Lebanon.

THE Cedar of Lebanon is a Tree

Within some Years, the Surgeons thought Size, and of a Pyramidal Figure, whose that the French Guajacum had the same Vir- Branches are adorn'd with little, narrow. tues with the Indian. The Error arole from green Leaves, and the Fruit like our Pine-Apples. It is from the Trunk, and the ners, who us'd to fell 'em the Sweepings of large Branches of this Tree, that there flows. their Shops, which was mix'd with several during the great Heats, without any Incision a fort of white Refin, very clear and transparent, which we call Cedar Gum, of which the largest Trees yield not less than six Ounces a Day. Here are likewise, during the hot Seafon, little Bladders made by the scorching of the Sun, which being pierc'd, afford a clear white Liquor, like Water, of a strong penetrating Smell, and is of the Turpentine Kind: and when the Tree ceases to produce any more of that, being cut, there flows an unctious Matter, which, drying wit runs down the Tree, is what we call Resin of Cedar, which is very rare in France, as well as the other Productions of this Tree. This Resin is of a very fine Yellow, bright, and transparent, and of a very grateful Odour.

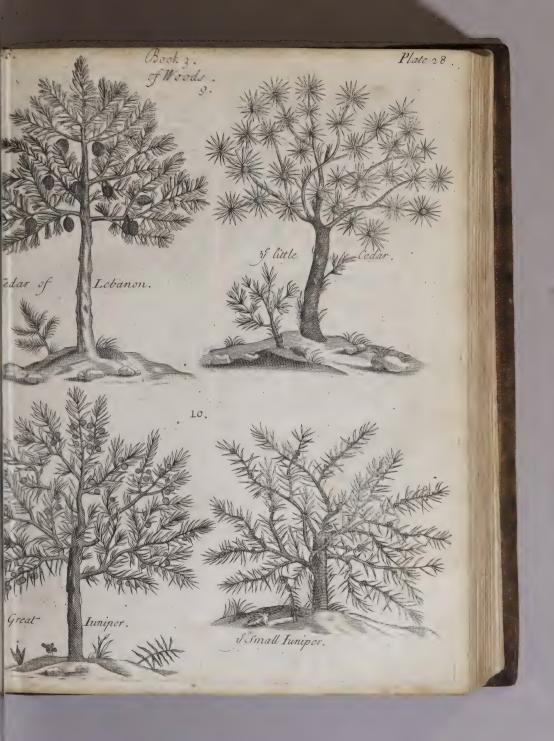
Of the Leffer Cedar.

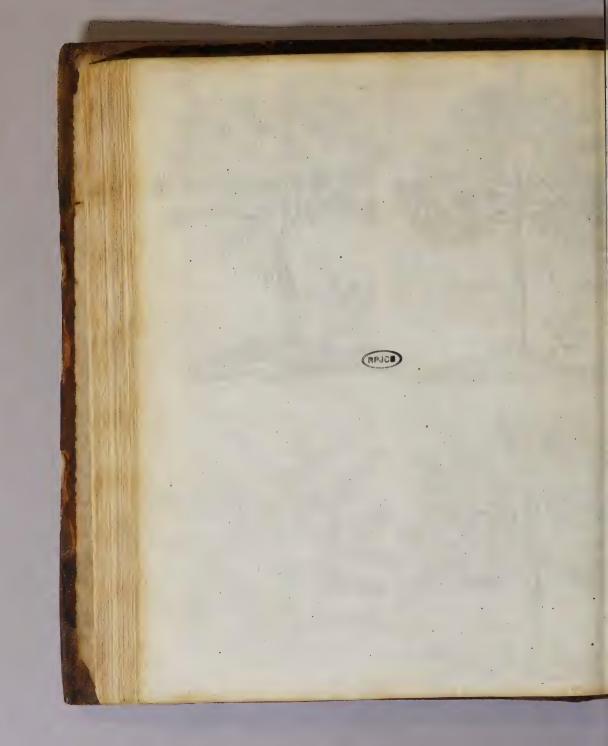
The Lesser Cedar is a Tree of various Sizes, commonly crooked, bearing long sharp-pointed Leaves, alway Green, especially in Winter; after which come Berries of the Bignels of Holly-Oak, or Knee-Holm; green at first, but red when they are ripe. The Trunk being cut, there issues forth a very clear transparent Gum, which is the true Sandarac; but as we very seldom have it among us, we use the great Juniper Gum instead of it, which I shall describe hereafter.

They make of this Wood, by the Affistance of the Retort, a black Oil, which being rectified, is call'd Oil of Cedar; but as these Trees are not very common, we content our selves with the great and leffer Juniper: The true Oil of Cedar, is admirable for curing Tetters, and Scabs in Horse, Cattle, Sheep and other Beafts; but as these forts of Oils are too dear, we will inftitute in their Place clear Oil of Pitch, which upon that Subject, is call'd Oil of Cedar, as you will find in the Chapter of Pitch.

Cedrus Magna, sive Libani Coni-Lemery. fera, or, according to Tournefort, Larix Orientalis, fructu rotundiore obwhich grows to a prodigious tufo, is a Species of the Larch Tree, or

a very





a very large, thick, ftreight Tree, rifing Spanish Cedar, with the great black Fruit; it is faid never to decay; the Leaves are small, is improperly call'd a Gum, because it is the to six. purest resinous Part of the Tree, and is digestive, detersive, consolidating, strengthening, good against Gangreens, and proper for Diflocations and Fractures.

There is another Sort of Cedar call'd Cedrus Baccifera, the Cedar that bears a Berry, or Cedrus Minor, the lesser Cedar, of which there are three Kinds; the first is call'd the Phanician Ceder, or Cedrus Folio Eupressi Major fructu flavescente, the great Cypres-leav'd Cedar, with the yellow Fruit; the Trunck and Branches whereof ar crooked and knorty, the Wood reddish, yielding a Smell like the Cypress; the Leaves narrow and sharppointed, harder than those of Juniper, and more prickly, green all the Year as the Cypress: The Shells or Husks are made up of Seed; there comes from the Trunk of the faid Tree, in the hot Countries, a Gum call'd Varnish.

The Second Sort is call'd the Lycian Cedar, or Cedrus Folio Cupressi Media Majoribus baccis, the middlemost Cypress-leav'd Cedar, with the great Berries; this Tree differs from the former, in that it is lower, and the Berries are much bigger.

The Third Sorr is call'd, Cedrus Hispanica

Piramidal, whose Bark is all of a Piece, much higher than the rest, and the Berries a the Wood very hard and durable, so that it is great deal bigger, of a black Colour: These Cedars grow in Italy, Spain, Provence and streight and green, dispos'd in Clusters along Languedock; they remain always green, and the Branches, putting forth in Spring-time, yield Abundance of Oil; the Wood is sudoand falling at the Approach of Winter; the rifick, being used in Decoction: The Ber-Flowers and Fruit as before described. ries are proper to strengthen the Stomach, and There runs a Sort of Gum from the Tree, affift Digestion. The Oil is drawn after without Incision, hard, and as it were in the common Method, by a Retort, be-Grains like Mastick, from whence it frequent- ing Black, and passes for the true Oil of Cely is call'd Mastick-Cedar: The Wood is dar; it is good for all Sorts of Scabs and us'd in fine Joyners Work, and Turners Deasness, and may be inwardly given in Ware. The Tear that flows from the Tree, Histerick Cases. Dose from two Drops

10. Of the great and small Juniper.

THE great Juniper, call'd in Latin Juniperus, is a Tree of different Sizes, according to the different Places where it grows. This Tree is commonly crooked, at a good Height of which spring forth several Branches, furnish'd with little, narrow, prickly Leaves, always green, bearing Berries of the Bigness of a Hazel-Nut; which the first Year are green, the second brown, the third black, and which being full ripe, are very Alexiphar-

By cutting the Trunk, and the largest ieveral little Scales, at the Bottom of which Branches of this Tree, there flows a Gum grow feveral Bags, or membranous Vefficles, call'd Sandarac, during the great Heats which full of Dust; the Fruit arises upon the is brought to us from Africk, where the same Foot or Stalks with the Husks, but di- Trees grow very high, and in great Quanvided into Cells, which are Berries, that tities. This Sandarac is the Arabian Sandaturn yellow when ripe, are a little fleshy, rac or Varnish, which is a great Trade with odoriferous, and of a grateful Taste; each of the Swedes, Hamburghers and English: This them containing three woody Kernels that is call'd, by some, the Arabian Sandarac; by are hard, hollow on their Backs, and flat on others the Vernish-Gum, or Gum-Juniper; the other Side, each Kernel having an oblong and is of more Use to the Artists than in Physick.

Of the small Juniper.

The small Kind of Juniper is so common every where, that it needs no Description; but there is made of the fresh and dried Besries, a white and fragrant Oil; as likewife a Water or Spirit, vulgarly known by the Name of Geneva, as a Corruption from the Procesior fructu Maximo Nigro. The tall French Word Genevre: Besides this, there is K 2 a Spirit the Retort; which Oil is that mention'd in is the Lamon Brafil. The Fourth is the Brafil the preceding Chapter; the Wood is usually burnt as well as the Berry, to drive away or expell infectious Air. The Germans use the Berry in their Ragou's and their Treacle; for which reason an Extract of it is call'd German Treacle. This Juniper likewise affords some Sandarac; but in such small Quantities it is not worth the While to make it.

The great Juniper is call'd Juni-Lemery. perus vulgaris celfior & Arborescens. The common high Juniper-Tree, or the Spanish Juniper, which is chiefly improv'd in Africa. Mr. Tournefort distinguishes this Tree from the Cedar by its Leaves, which are fingle and flat, instead of those of the Cedar, which more resemble the Cypress; it is sudorifick in Decoctions, and fragrant when burnt; to which purpose it is frequently us'd in the Houses to prevent pestilential Diseases, and other Infections.

The other Juniper is a common Shrub known to every Body, which is full of Oil and essential Salt; it grows plentifully in some Parts of England, and in most Parts of Europe; the Berries are cephalick, good for the Nerves and Stomach, to provoke Urine and the Terms, to refist Poilon, for invererate Coughs, Wind-Cholick, and Nephritick Pains, together with the Strangury, Gravel, Sharpness of Urine, and all Obstructions of the Urinary Passages, Womb, Liver or Spleen. In France they make Comfits of them, which they call St. Roch's Comfits, and carry them in their Pockets, that they may chew two or three of them in a Morning, to prevent infectious Airs, and make the Breath sweet.

11. Of Brafil Wood.

E sell to the Dyers several Sorts of red Woods, by the Name of Brafil-Wood: The First that is most esteem'd, and most in Use, is the Brafil-Wood, call'd Fernambuck, because it is brought from a Place of that Name in Brasil; the next is the Brasil-Wood of Japan, which the English and Dutch call for Miniature. Sapan-Wood, of which there are two Sorts; Brasil-Wood of Sapan, and the less is the Brafil Wood of Japan, or else the Bimaes Sapan,

a Spirit and Oil drawn from the Wood, by in that it is much smaller. The Third Sort of St. Martha. The Fifth, and much the least, is the little Brasil-Wood that comes from the Antilles; likewise that which makes so many different Kinds of Brafil-Wood, is nothing else but the several Places and Difference of the Soil where the Wood grows.

The Tree from whence this Wood is cut, is very thick and large; having long Branches that bear a vast Quantity of little Leaves, half round at the Top, and which grow more taper towards the Branches, of a fine shining Green; at the End of which come Flowers, like the Lilly of the Valley, of a beautiful Red, and a sweet Flavour, from whence comes a flat Fruit, in which is enclos'd two flat Almonds, of the same Shape

and Figure as the Gourd Seed.

The Natives prepare the Wood which is brought to us, by cutting it close with the Ground, and Branching or Lopping of it, and taking away the thickest Paris; so that what remains is only of the Size of a Man's Leg. Chuse the true Farnambuck-Brasil, in heavy Billets or Logs, compact and without Pith, found and firm; that is to fay without Rottenness; which after it is shiver'd in Pieces, shews of a reddish Colour, and being chew'd is of a sweet Taste; but take care that it be not mixed with other Kinds of Brasil, which is easily known, in that all the other Sorts, except the Japan, are without Pith; and that of Lamon may be distinguish'd from the Farnambuck, in that it is in large Billets. Some Persons have affur'd me, that the Brasil of Lamon comes from All-Saints-Bay, where it grows in great Quantities. As to the Brafil Chips, the best Account I can give you of it, is to trust to the Honesty of the Merchant with whom you deal. This Wood is us'd among the Dyers, and the Stationers make red Ink thereof There is a very red Tincture made of the Farnam-buck Brasil, of which I have been asfur'd a Carmine is made as from Cochineal, but I never try'd it : Likewise there is a liquid Lake made of this, which the Painters use

This Wood is call'd Lignum Brato wir, the large Sapan-Wood, or the great silianum Rubrum; the Tree from Lemerya whence it comes by the Indians nam'd Ihirapitanga; the Bark is reddish and

with abandance of small Leaves like the Bramble: the Flowers are little, and join'd several of them together, very odoriferous, and of a fine red Colour: This Tree grows in the Woods, and the best Kind is the Farheaviest, firmest, soundest, reddest, and that which affords the sweetest Smell.

There are several Sorts of this Wood the Principle Use of all which is for the Dyers; it contains a great deal of Oil, and a little Essential Salt, is astringent, and the Tincture proper to strengthen the Stomach, abate a feverish Heat, and remove the Inflammation of the Eyes: The Wood boil'd in Water, with a little Alum, will strike a red Dye into Eggs boil'd with it; and it is us'd to colour Roots of Althea to clean the Teeth withal. Some Authors affirm it to be of great Use against the French-Pox; but I find it seldom or never prescrib'd for that purpole; for tho' it may be drying, it has nothing of the acrid, hot Quality of the Guajacum, neither does it abound with Rofin like that Wood: According to the following Prescription, you will have a Tincture for the Dying of Skins, Book-Covers, and the like things, and to write withal, as Red-Ink: The Tincture prepared with Water, only serves for Dying of Wool, which will not turn Purple, nor fuffer an easie Decay. The Tincture is thus made: Take Raspings of Brasil, and instead of Water insuse them in Vinegar, or some Lixivium, with a little Gum-Arabick and Alum, setting them in a glazed Pot, or Pipkin, for fome Hours, you will have a Blood-red Tincture.

12. Of Log-Wood, or Campachy-Wood.

HE Log-Wood, call'd Indian-Wood, Campechy or Famaica-Pomet. Wood, is the Heart of the Trunk of a large Tree, which grows plentifully in the two Islands aforeiaid, and in Santa Cruce in America, where there are whole Fo-

This Tree is bigger or less, according to call'd also Brafiletto; comes from

thorny, the Branches are long, and adorn'd Trunk, very thick and straight, cover'd with a thin Bark, that is plain and smooth, of a Silver-grey, or yellowish Colour, of the Height and Figure of the Laurel-Tree; the Leaves being held in the Mouth, afford a Scent like the Clove, which has made it ofnambuck which is brought to us from a tener been taken for the Tree that bears the Town of Brasil of that Name; chuse the Clove, than any other, by reason of the delicate Flavour which has given it the Name of the Indian Aromatick Laurel. After the Leaves comes a fmall Fruit, which adheres to the Branch by a little Stalk like the Cubebs, and at the other End a small Crown or Garland; the Fruit is of a dun Colour, the Tafte sharp and piquant, notwithstanding it is agreeable enough, tasting like a Clove, which occasions it, for the most part, to be call'd Clove-Berry; the Fruit being broken, there is found within three small Kernels very

near resembling Musk-Seed.

We may observe then that the Indian-Laurel, or Campechy-Tree, affords three forts of Commodities that are very good and faleable; the First is the Wood, which coming from Campechy or Famaica, is carried to France by the Way of England, and chiefly imploys the Dyers, Bead-makers and others, who use it to dye Blue and Black. The Second Commodity this Tree affords is the Leaf, which the Americans make use of for Fomentations, to cure the Palsie and other Diseases proceeding from cold Causes. The Third is the Fruit which the French use in Imitation of the English, as being a very strong Aromatick, and proper upon several Occasions. As this has been known but of late Years, the French have had but little Commerce therein. besides what their Privateers of St. Maloes obtain from England: The Grocers diffinguish it by the Name of Clove-Berry, because of its Resemblance to that Spice in Smell and Tafte, and therefore it is call'd, with us. All-Spice, as having an Analogy to Cinamon, Cloves, Mace and Nutmegs, and is very much used in all Sauces. By the English it is call'd Jamaica-Pepper, by the Dutch Amomum, and by the French the Fruit of the Indian-Wood, and vulgarly, tho' improperly, Clove-Berry.

Lignum Indicum, Campeciams Log-Wood or Jamaica-Wood, Lemers. the Soil that produces it; it riles upon a Campbecy and Jamaica, where it is chiefy found growing; but it grows in several other is made in the Nature of a Grape, of a dark! Parts of the West-Indies, in the Spanish Territores, the Isles of Providence, and the like, where, besides the Wood, the main Produce is the Pepper, or Fruit of the Tree, call'd Pimento; what the English use comes in great Plenty from Jamaica; it is small, round and blackish, almost like common Pepper, but of a more fragrant Smell, and much more aromatick Tafte; when one chews it in the Mouth it is hot, and the Flayour is as if you had all the other Spices in your Mouth at once, as Cinamon, Cloves, Mace and Nutmegs, being strong, and of an odoriferous Smell, and without doubt possesses all their several Properties, Qualities and Vertues, though possibly not in so large a Measure, in respect to its Body; for that it confifts of much more Earthy Parts than any of them, Cinamon only excepted; but the Tincture, or Oil of it, being extracted from its terrene or feculent Part, with which it holds but a fmall Proportion in refpect of the four Spices; they are not much inferior to what may be extracted from those generous Druggs: So that in short we must allow this Spice to be stomachick, cephalick, cardiack, uterine, nephritick and arthritick; it is alexipharmack and diuretick. comforts the Brain and nervous Parts; refrethes and strengthens the whole Animal Oeconomy, and restores the natural Functions of Life, where weaken'd or decay'd. It is given in Powder, Decoction or Tincture, against Diseases of the Reins, Liver, Spleen and Womb; and is very profitable in Gout or Stone, eight or ten Drops of the Tincture, made with Spirit of Wine tartariz'd, being raken three or four Times a Day, in any Cordial-Water or Wine. The fetid Oil, made by the Retort, is good outwardly applied to Gangrenes, Tooth-Ach, and the like.

12. Of Fustick Wood.

THE Wood we commonly call by this Name, is the Roots and Pomet. Trunk of a Shrub which Botanists call Coggigria from Theophrastus, and Cotinus from Pliny, which has green Leaves almost round; after which grows a Flower, which at first There is another Sort the Dutch transport

green Colour, and which at last opens is felf. The Roots and Trunk of this Shrub are what the People of Provence and Italy, after they have peel'd off the Bark, fell for Fuftick Wood, which according to its yeilow Colour, is supposed to be the better Commodity: That of Provence excells the Italian; but there is a better Sort comes from Holland and England than either of the other Two. The Use of it is for the Dyers, to make a dead Green, and is of some small

Account among the Ebonists.

There comes another Sort of yellow Wood from England and Holland, in thick Billets, which is known by no other Name than that of the yellow Wood, which ferves the Dyers and the Ebonists. I know nothing further, touching this yellow Wood, than what I have here related. There comes a certain Wood from Larrain of a greyish Colour, tending fomething to a reddish, hard, and moderately heavy, furnish'd with a Bark that is thin, and a little resembling the Cherry-Tree, which is what we call Saint Lucy's Wood; and which, because of its agreeable Scent, is used by the Ebonists. The Choice of this Wood is from its being firm, and without Knots. This Wood is admirable in its own Nature, in that it is not subject to Decay; and the older it is the better it smells. Mr. Tournefort affured me, that this Wood was the Stem of the Shrub, which bears the Mahalep, of which I made Mention in the First Book of Seeds.

There is brought from the Indies a certain greenish Wood in thick Billets, of a very good Smell, by the Name of Calambourg-Wood, serving for a great many Sorts of VVorks, by reason of its sweet Scent, which is proper for feveral Kinds, as also for Inlaying and making of Beds; the Surgeons and Barbers use it as Rhodium to boil it in the VVater with which they shave.

The Dutch transport two Sorts of Purple or Violet-colour'd VVood in large Billets, which is of no other Use but for Turners VVare. The Choice of this VVood is to pick fuch as is the most veiny, or marbled within and without, the least spotted or decay'd that can be met withal: The largest Violet-VVood is call'd Palixandre-VVood

of a reddiff Colour, tending to a Purple, nava, and many others which I shall forbear that this VVood only comes from the Conti- have assured me that it was the white Cinent of Guinea, which I do not understand, namon, which I have no Faith to believe. having never feen any: but this is likewife for Turners VVare.

· Besides these Sorts of VVood mention'd before, there are three Sorts of Ebony, to wit, the Black, which the Dutch bring from the Island of St. Maurice, and the Ancients pretend was a VVood of Aloes. The Second is the red Ebony; the Third is the Green Ebony. As to the Tree, that produces the black Ebony, some pretend that it is the Height and Size of the Oak, and that it is like the Heart of that VVood, except that the Colour is blacker, which is that that gives it the fine Pollish or Smoothness, and makes it valued. It is said the Leaves resemble the Laurel, and bear betwixt two Leaves a Fruit like an Acorn, upon a little Stalk; the red Ebony is likewise very solid and heavy, being more veined, and of a higher Colour: The Green has the same Qualities when freed from the Bark and Sap.

The Use of Ebony is for several Kinds of Turners VVare; and because of the great Use it was of formerly, and its Dearnels, those who work upon Ebony are call'd, at this time, Ebonists, who are a very considerable Body of Work-Men; there are those who affirm that the Sap of Ebony, infus'd in VVater, has a Purgative Quality, which

will cure the Venereal Difease.

Besides this, there comes from the Indies a greyish VVood in large Billets, of an Annifeed Smell; for which Reason, it is called by the Ebonists or Cabinet-makers, who work in it, Anise-Wood. There is another Wood fold, with the Seed thereof, named Anise of China, Siberia, of the Philippine Isles, &c. describ'd under the Head of black Cummin Seed, and delineated under this of Fustick-Wood, by the Name of China Anise. There is yet several other Sorts of this Wood, as Sambarame-Wood, which is a Kind of white Sanders: Mohicca-Wood, which the Natives of the Country call Pa-

which the Dutch call Letter-Hout, and the to mention, we having little Trade or Sale French China-Wood: Monsieur Furetiere says, for them: As to the Molucca Wood, some

This Wood is call'd by Mr. Tournefort, Cotinus Coriaria Coccigria, Lemery

by Theophrastus, and Coggygria by Pliny. It is a Shrub of fix or feven Foot high, bearing its Branches round, cover'd with a dark, red Bark; the Leaves are large, veiny, almost round like the Elm, but much less, smooth and green: The Flowers grow on the Tops of the Boughs like Grapes, of a dark Colour inclining to Purple. This Shrub grows on the Mountains in Italy, Hungary, and Provence; the Wood is yellow, and us'd by the Dyers and Leather-Dreffers. The Leaves and Seeds are very aftringent, cooling, drying, and vulnerary, and may be us'd in Gargles for Ulcers in the Mouth, Throat, and other Parts, and for the Tooth-Ach: A Salt made of the Ashes of the Wood, makes an excellent Purge with two Drams of Treacle or Methridate, and ten Grains of the Salt; this may be given three or four Days succesfively, as the Disease requires; and is said to have such sufficient Virtue to give Relief in the Gout and Rheumatism, as is not to be found in any other Medicine whatsoever, Laxative, Purgative, or Expulsive. Make the Salt thus: Take what Quantity of the Wood you please, burn it to Ashes; and with Fumitory Water, or any other proper Vehicle, make a Lixivium, or Lye, filtrate this. and then coagulate it into a Salt, according to the usual Form.

In Surgery you may use the Salt thus: If the Wound, or Sore you wou'd dress, be open, first cleanse by this Salt, then anoint it twice every Day with the Balsam or Gum of this Wood, made as that of Guajacum, till the Cure is perfected: If there be great Pain in any Part of the Body, and nothing to be seen, anoint the Place with this Gum; by this Gum may be cured the Gout, the

Palsie, and the French Disease,

BOOK the Fourth.

Of BARKS.

Y the Word Bark, I mean the First, Second, or Third Covering, or Rind of the Trunk of the Tree which we use, as it is taken naturally from the Vegetable, as the Cortex or Peruvian Bark, the Bark of the Mandrake, and fuch as is cleans'd, or freed from the first or outward Rind, as Cinamon, Cassia lignea, and others of the like Nature. But I shall begin my First Chapter with the Tree that bears the Cinamon, as well because of the great Consumption that is made of that Bark, as from the confiderable Virtues with which it is endowed.

1. Of Cinamon.

WHAT the Ancients, as well as the Moderns, call Cinamon, is the middle Bark, or inner Rind of the Branches of City, was a fworn Enemy to the Hollanders; a Tree, which grows the Height of a Willow, and whose Leaves are so like the Folium Indum, describ'd under the Chapter of Log-Wood, that it is difficult to find the Dif- Barking the Cinamon-Trees; and enterrain'd ference at first Sight, which has given grounds, these Work-Men all the rest of the Year, Palate can do it with Ease, because the scrib'd. Leaves are of so sweet a Taste and Smell, that they surpass, in some Measure, the lesser their Crop of Cinamon, they free it from Cinamon. After the Leaves arise white the outward Bark, which is brown and Flowers, in Form of little Cups, from rough, then they lay it to dry, and roul it whence come Berries of the Figure of an up; by this means it acquires the Figure we Olive-Stone; each of which adheres to the see it in, and becomes of a reddish Colour,

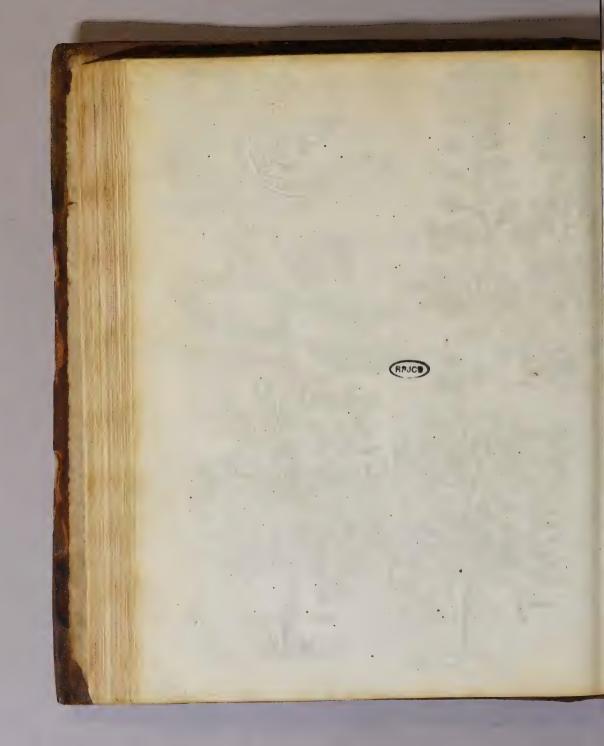
Branch by little Stalks, as is represented by the Cut engraved from the Original, which Monsieur Tournefort has in his Hands; of which he wou'd have given me, the same time, five or fix Leaves, of the Shape and

Taste here taken Notice of.

As to the Place from whence the Cinamon comes, and the Manner of Barking the Tree, I think it proper to relate what Mr. Tavernier has writ of it. The Cinamon comes from the Isle of Ceilon in the East-Indies; the Tree that bears it is very like our Willow, and has three Barks or Rinds; but the second or middlemost Bark, is that which is chosen for Use, and the others rejected as of no Importance. This Cinamon costs the Dutch more than can be believed; for the King of Ceilon, otherwise call'd King of Candy, from the Name of the Capital so that every Year he set a Guard of five or fix Hundred Men to cover and defend as many Labourers, during the Season, for to some People to affert, that the Folium In- without reckoning the several Garrisons maindum was the Leaves of a Tree that bore the tain'd throughout the whole Island: These Cinamon; but if the Leaves are fo like, great Charges enhanc'd much the Price that the Eye cannot readily diftinguish, the of Cinamon, which grows as before de-

When the Inhabitants of the Island gather





being of a sweet Smell, and piquant Taste, they please to the foreign Market; for which aromatick, and very agreeable: Therefore chuse such together with the thinnest Bark, and of the highest or deepest red Colour that you can get, throwing afide fuch as is thick, or has little Taste or Smell. As to those who buy great Quantities, let 'em take care that they do not purchase Cinamon that has had the Oil or Essence drawn from it; which is very difficult to know, unless you tafte it

Piece by Piece.

Cinamon is of such great Use, that we have few Druggs which we use so much of, as well because of its Virtues, as from its agreeable Taste and Smell. The Dutch bring us another Sort of Cinamon, with a large Bark, and very thick, which is that the Antients, from the Arabs, call Draheni, and we. unpollish'd or rough Cinamon. This Cinamon is the Bark of the Trunk and large Branches of the Tree bearing the Cinamon. but as it is a Merchandize, or Commodity, of little Value; because there is no Sale for it, being without Tafte and Smell, except to the Chandlers and Hawkers; fo it is not worth while to speak further of it. The Confectioners, after insusing the fine Cinamon in warm Water, cover it with Pearl-Sugar, and fell it by the Name of Milan Cinamon. The French likewise make little Pastiles of Cinamon and Sugar, which, with the Mucilage of Gum-Tragacaneh, they make World.

2. Of Oil of Cinamon.

BY means of a proper Menstruum, and an Alembick, there is made, from fine Cinamon, a rich, clear, and reddish Oil, of a very strong piquant Taste, which is almost impossible to bear upon the Tongue; never- as the French and Italians, use such great theless, its Taste and agreeable Smell is the Quantities of it. Reason that most People covet it. As Cinamon is a Bark which has very little Oil in it, a Sort of Cinamon-Water, in which the we are forc'd to have Recourse to the Hol- Oil plentifully abounds. This is distill'd from landers, who deal in this Commodity from White-Wine, Rose or Balm-Water, or, in-

Reason, to avoid being impos'd upon in such a scarce and valuable Commodity, I shall propose a Method to draw the Oil to better Advantage than hitherto has been done. Take what Quantity of Cinamon you please; icfuse it 24 Hours in cold Water, continuing it so long till the Water becomes ting'd of a beautiful Red; then put it into a large Copper Alembick, and add thereto a proportionable Quantity of Spirit of Wine, which has the Property to separate the Oil from the Water, and make it rife to the Top of the Vessel; so that one Pound of Cinamon shall be able to produce near the Quantity of an Ounce of Oil, which is contrary to what Mr. Lemery affirms, that four Pounds of good Cinamon will, with difficulty, pro-

duce fix Drams of Oil.

It is rare that the Hollanders fell the Oil of Cinamon genuine and natural as it is made, but mix it with Spirit of Wine, well deflegmated, and drawn over upon Salt of Tartar; and which has given a Handle to feveral Chymists and Druggists to do the same; so that those who buy an Ounce of this Oil, have not above half an Ounce for their Money; which is of great Consequence, not only as it is a valuable Commodity, but as it is one of the best Medicines: Tho' the Chear is easy to discover two ways. The first is, when looking into the Bottle in which into a Paste. The Dutch, and the Natives it is contain'd, you may observe the Humiof Ceilon, make a Confection of fresh Cina- dity that is within: The second is, by dipmon taken from the Tree, which is an excelping the Point of your Knife in, and, putting lent Sweet-meat to carry to Sea, but very it into the Candle, if there is any Mixture of rare to be met withal in these Parts of the the Spirit of Wine, it will take Fire presently; but, on the contrary to that, when it is pure, it will do nothing but smoak : And this pure Oil is what we call, with just Reason, Essence, Quintessence, or Oil of Cinamon, which is proper to all its Intentions, and excels all other Preparations of the Bark, or the Bark it felf, being the greatest Cordial we have; for which Reason, the Dutch, the English, and the Germans, as well

Besides the Oils at Montpelier, there is made the Isle of Ceilon, and dispose only of what stead of Wine, Aqua vite, or Spirit of Wine

and Cinamon; from which, by a Glass matick, the more it is efteem'd; neverthe-Alembick, in a Sand-Heat, or Balneo, a less there is a great Difference betwixt the muddy Liquor is drawn, like Milk-Water, one and the other, the Cassia lignea leaving which, after a little Time, clears up again, a Viscosity in the Mouth, which we do not and looks like Spring-Water. That which meet with in the Cinamon. It is of little makes the Water look thick when it is new, or no Use in Physick, only that it enters into is the Oil, which is rarify'd in the Water, fo the Composition of the great Treacle, and is that it becomes imperceptible in that Form; otherwise impos'd upon the unskilful Buyer but when the Liquor separates, and becomes for true Cinamon, tho' a Pound of that be clear, the Oil precipitates to the Bottom of worth more than five of the Cassia. There the Liquor, and remains in Form of a little Ball. This Cinamon-Water is very useful excellent Corroborative, strengthens the Stomach, and affifts Evacuations: It is also prevalent in refifting the Malignancy of the Air, and pestilential Vapours, and to re-establish the natural Heat of the Animal Life.

Some make Pastiles with Cinamon-water and Sugar, which formerly were call'd Oleo Saccharum; but those are not so good as what are made with Oil of Cinamon. At Montpelier they make a Syrup of Cinamon, from a strong Infusion of it and Sugar, brought to a due Consistence, and aromatiz'd with a few Drops of the Effential Oil. VVe sell a Tincture of Cinamon, whose Virtue is encreas'd by feveral other Aromaticks, as Cloves, Mace, long Pepper, Galangal, Ginger, Coriander, Musk, and Ambergrise, all grossly powder'd, and put into a Bottle, with Brandy or Spirit of VVine, and fet in the Sun during the hot Days; and this is what we fell by the Name of Effence of Red Hypocras. There is likewife a VVhite Hypocras, made almost the same way, only it is filter'd, to discharge the Colour. They may both of them be sweeten'd, according to the Palate of the Drinker. This is a mighty cordial Dram, in Use at Montpelier, and the Southern Parts of France.

3. Of Cassia lignea.

THE Cassia lignea is also a second Bark of the Trunk and Branches of certain Trees, very like those which produce the Cinamon. These Trees grow here and there, intermix'd with those Trees that bear the Cinamon. It is the same as to Cassia lignea as it is in Cinamon, that is, the finer or purer the Bark is, the higher Colour, the

are several Kinds of this Bark, as first, the True, or Quill Sort; 2dly, the Tramboon, to give Women in Labour, in that it is an brought from the East-Indies. The True, is that which is the best for Medicinal Uses, and is of the Quill Sort, being of the Thickness of a Goose-Quill, made up into small Bundles, generally ten or fourteen Inches long, of a bright Cinamon Colour, and much of the Taste, but not so biting upon the Tongue, when chew'd. The Tramboon is of three Sorts; first, the Small, like small Cinamon, and something of the same Taste, but not fo strong, being more earthy and woody, and of a worle Colour; 2dly, the Bundle Sort, bound up in Bundles like Clove-Bark, of a very hot biting Tafte, but breaking more blackish within, and, as it were, gummy; 3dly, the thick Sort, almost like the last, in Rolls as thick as a Man's Thigh, which is also strong, but of a very dark Colour. Cassia lignea differs from Cinamon, in that it is weaker, darker colour'd, and, when chew'd in the Mouth, more glutinous, dry, and harsh; whence it appears that the Cassia lignea Tree, and that of the Cinamon, are two different Trees: Tho' the Difference of the Colours in the Tramboon Cassia may be suppos'd to arise from its Preparation when taken off the Tree, being dry'd in the Sun; when it is less dry'd than it shou'd be, it is of a paler Colour; and, when too much burnt with the Sun, it grows, as it were, black.

4. Of White Cinamon.

W Hite Cinamon, to which some give the Name of White Costus, Costus Bark, Winter's Bark, or Winter's Cinamon, because William Winter was the first who brought it into England; is the Bark of the Trunk sweeter Taste, and the more biting and aro- and Branches of a Tree of the Size of a Pear-Tree: The Branches are flender, high, ftraight, and well adorn'd with Leaves, like those of the Laurel, but more delicate, fofter, of a Sea-Green, and very fine Smell; after which grows a round Fruit, of a beautiful Red. This Tree grows plentifully at St. Domingo in Guadaloupa, all about the fandy, mountainous, or rocky Parts; and is met withal in the Isle of St. Laurence or Madagascar, where it is call'd Fimpi.

The White Costus, we call White Cinamon, because of the great Conformity it has with the unpolish'd Cinamon, both in Colour and Tafte, so as few People can discover the Difference. This is the Bark that some Apothecaries improperly make use of, instead of Arabian or Indian Costus, of which we made Mention already, and, upon that Occasion, give it the Name of Indian Costus; which is Nonsense, because the Indian Costus is a Root almost unknown to us, and this is a Bark very easy to be known, being of a warm biting Tafte, and very aromatick, but very tions. Some have thought this Bark very uleful in the Cure of the Scurvy. During the hot Season, there flows from the Trunks of these Trees, a black Gum, far, and very odoriferous: This is that which some Druggists call-Gum Alouchi, and oftentimes fell for Gum Ivy, or Bdellium; which is easy enough to distinguish, in that Gum-Toy is very dry, clear, and transparent. Bdellium is almost like Gum-Arabick, but that it won't dissolve in Water; and this Gum is foft and greafy, of different Colours, very dirry and impure.

Cinamomum Winteranum, rolls up in Pipes ike Cinamon, but is much larger and thicker, and of a whitish yellow Colour, very hor, siting, and aromatick in Taste, having the Virtues and Relish of most other Spices; ind is brought to us cut of the West-Indies, of the adjacent Islands. It is an excellent Sephalick, Stomachick, Cordial, and Hyterick: It attenuates and opens, is fudorick and alexipharmack, prevails against the Tertigo, Megrim, Head-ach, Apoplexy, Lehargy, Palfy, and most Diseases of the lead and Nervous Parts: It strengthens the

the Cholick, and griping of the Guts; opens Obstructions of the Bowels, and provokes the Terms: It is a good Cordial, strengthens the Heart, revives the Spirits, and fortifies the whole Body, being excellent against Faintings, Swoonings, Sickness at Stomach, Palpitation of the Heart, &c. us'd as the true Cinamon, in Powder, Water, Oil, or Spirit, but in large Quantities, to answer the fame Intentions.

5. Of Clove-Cinamon.

HIS is what we call, improperly, Clove-Wood: It is the second or inner Bark of the Trunk and Branches of a Tree, whose Leaves come very near those of the Laurel; after which spring round Fruit, of the Size of Gall-Nuts, Chesnut-colour'd, very light, which being broke, you may find within a kind of Kernel: The Fruit has the Smell and Tafte of the Clove, which gave Occalittle in Use, either in Medicine, or to other sion to the Antients to call it Clove or Mada-Purpoles, among any of the European Na- gascar Nut, because we meet with great Quantities of those Trees in that Island. The Clove Wood, or rather the Bark, having the Tafte and Smell of the Clove, is at present made use of, especially by the Hawkers and Chandlers, who sell it, after it is beat to Powder, for powder'd Cloves, tho' the Cloves are four or five times as dear again as this Bark; and so they deceive the Igno-

As it is the inner Bark that is chiefly in Use, it ought to be pick'd clean from the outward Bark, which is usually grey and knotty, and of a dun Colour; which shou'd be thin, of a biting, aromatick Taste, and as nearly approaching the Clove, both in Smell and Tafte, as possible; but take care that what you buy be not mix'd with thick Bark, that has neither Taste nor Smell, as happens too oftom Nevis, Antegoa, Moniferrat, and other ten. This is of little or no Use in Physick; but there are some Persons who make a Tincture of this with Aqua vita, or Spirit of Wine, which they fell afterwards, without Punishment, for Tincture or Essence of Cloves: The Confectioners and Perfumers likewise use it instead of Cloves.

Others say, this Clove-Bark is brought to tomach, causes an Appetite and good Di- us out of Turkey, and is almost in the Shape estion, expells Wind, and is singular against of Cinamon, but comes very near the CoSmell; fo that the Fragrancy and Odour of each are scarcely discernable one from the other, except by the Strength, Cloves being much stronger than this Bark. We seldom make use of it in these Parts of the World; but the Natives of the Country where it grows, esteem it as a Cephalick, and good against the Cholick, Wind, Gripings of the Guts. Obstructions of the Courses, &c. taken in Powder from a Dram to two Drams, and in Tincture to an Ounce or two. There is a VVater made of it, that the Hollanders impose upon us for Clove water, tho' at an inconfiderable Price, which is a good Stomachick, and an excellent Vehicle to convey any Cephalick or Anticholick Medicine in.

Cinnamomum, seu Canella, in Eng-Lemery, lish Cinamon, is a thin Bark, that is smooth, and roll'd in long Pipes, of a ruffet Colour, or yellowish, inclining to red; of a sweet Smell and Taste, piquant, fragrant, and very aromatick: It is taken of no Taste, is worth nothing; therefore in from the Branches of a Tree about the height of our VVillow, which bears a Leaf shaped like the Indian Leaf we call Malabathrum, deceived; for that without Tafte, has been which fmells and taftes like the Cinamon, either ill got and dry'd, or diftill'd in the The Flowers grow in little Cups, white and odoriferous, succeeded by a Fruit that is of the Shape and Size of a small Olive, green at first, but growing black as it ripens. This Tree grows in the Isle of Ceylon, which is tients, and the very same which in some Shops in the Meridional Part of India; and the is call'd Canella: The best comes from Ceylon. VVood is without Smell or Tafte. principal Virtue lies in the Bark, which, when fresh, is greyish without, and yellowish with-in: VVhen it is separated from the Tree, it easily divides into two Barks, and they keep the inner Bark as the most valuable, which they dry in the Sun, and roll it up just as we have it come to us. This has little or no Smell or Taste when taken from the Tree, but acquires both afterwards; therefore take care of fuch as has been dry'd in too fcorching a Sun, for that will be blackish, a great deal of the Volatile and Effential Parts being evaporated: On the other hand, if it has been dry'd in too moist a Season, it will have a grey Colour, and not half its. Virtue, because the volatile Salts are not sufficiently exalted: But chuse such as is the finest thin Bark, of the highest Colour, a fully in Peru, from whence this is brought grateful Smell, and biting Tafte. When us, by the way of Cadix. But as I have ne-

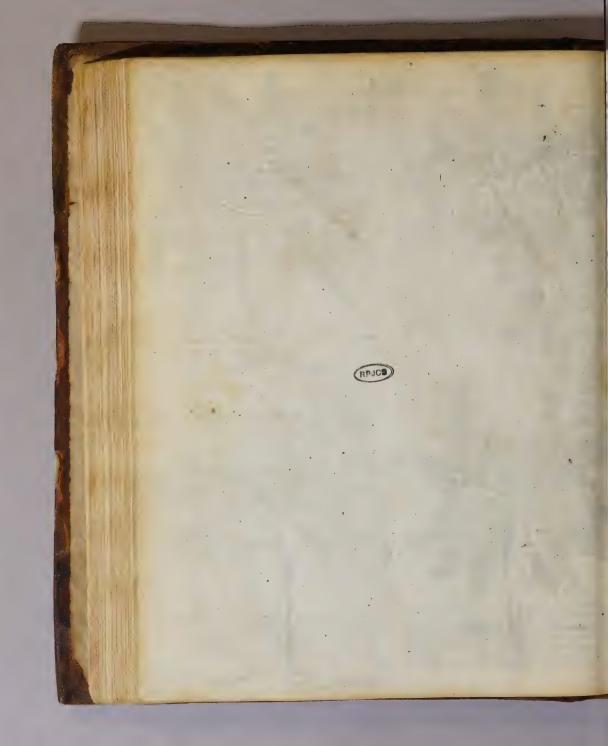
lour of Cloves, and has the same Taste and they have bark'd the Cinamon-Tree, if they let it alone for three Years together, it will produce another Bark as good as the former. This Cinamon yields a great deal of exalted essential Oil and volatile Salt, therefore is proper for the Head, Brain, and Nerves, to fortify the Vitals, comfort the Heart, affift the Stomach, expell VVind, help Digestion, strengthen the VVomb, open Obstructions, and provoke the Terms: It is the greatest Restorative in Nature, and an excellent Antidote against Poison, Plague, and any malignant Diseases. The best Preparation of it is the Effential Oil, which, if genuine, two Drops given upon a Lump of fine Sugar, or in a spirituous Vehicle, will revive the Spirits to a Miracle. It is good in Powder, Decoctions, Tinctures, Cordial-Waters, &c, from half a Dram to a Dram in Powder, and from that to an Ounce or two in Decoction, Tincture or Water.

That Cinamon which is ill colour'd, and buying it, you ought to bite, chew, and tafte every particular Stick, that you be not Indies, or elsewhere, and its ftrong aromatick Oil taken from it, which is a great Cheat and Abuse to the European Buyers. Cinamon was the Cassia lignea of the An-The aforenam'd, and the worst from Fava. Its. Colour it attracts from the Sun-beams, for the Bark being taken off from the Tree, and expos'd to be dry'd in the Sun, that which is not well dry'd, is of an Ash Colour, but if too much burnt with the Sun, it is of a blackish, or of a dark brown: If it be well cur'd, it is of a more rofy or pale red, and, by lying together, and Length of Time, changes into the Colour we have it of here.

6. Of the Peruvian Bark.

THE Kinguina, or Quina quina, Peruviana Bark, or the Bark against Fevers, is the external or outward Bark of the Trunk and Branches of several Trees that grow plentis-





ver been in Peru, to know how to speak exactly of the Trees which produce this Bark, I shall have recourse to Mr. Bernard, Musician in Ordinary to the King, who is a very honest Man, and very curious in the Knowledge of Simples, who had a Description of the Kinquina given him from one who liv'd twenty Years in Portugal, and had made several Voyages to the West-Indies, and to Peru.

A true Description of the Peruvian Bark.

The Kinguina is the Bark of a Tree that grows in Peru, in the Province of Quitto, upon the Mountains near the City of Loxa. This Tree is almost of the Size of a Cherry-Tree: the Leaves round and indented: It bears a long reddish Flower, from whence arises a kind of Pod, in which is found a Kernel like an Almond, flat and white, cloath'd with a flight Rind: That Bark which comes from the Trees at the Bottom of the Mountains, is thicker, because it receives in more Nourishment from the Earth: It is smooth, of a whitish Yellow without, and of a pale Brown within. That which comes from Trees on the Top of the Mountain, is abundantly more delicate; it is uneven, browner without, and of an higher Colour within; but the Trees which grow on the Middle of the Mountains, have a Bark yet browner than the other, and more rugged. All these Barks are bitter, but that from the Trees at the Bottom of the Mountains, less than the others.

If follows from hence, that the Bark of the least Virtue, is that which grows in the lowest Places, because it abounds more with earthy and watry Parts, than that which grows high, which, for the contrary Reason, is better; but the best of all, is that which grows in the Middle of the Mountains, because it has not too much, or too little Nourishment. There is another Kind of this Bark, which comes from the Mountains of Potofi, and is browner, more aromatick, and bitterer than the former, but abundantly scarcer than any of the rest.

The Conditions or Qualities we ought to

Water presently, and that flies into Dust in breaking, or is dirty and unclean, as it happens to be sometimes: But make choice of fuch as is in little thin Pieces, dark and blackish without, with a little white Moss, or some small Fern-Leaves sticking to it, reddish within, of a bitter and disagreeable Taste; and refuse that which is full of light Chieves when broke, and of a ruffet Colour; and take care that there be not several Pieces of Wood mix'd with it, which you have more of fometimes than the Bark. This was brought first into France in the Year 1650, by the Cardinal Lago, a Jesuit, who having brought this from Peru, it was had in such Vogue in France, as to be fold Weight for Weight at the Price of Gold.

The Use of this Bark is for the Cure of Fevers, especially intermitting, for which Purpose it is given in Substance, Tincture, or Infusion; but as it is a Medicine some People have an utter Aversion to, and as the Use of it is of ill Effect, unless properly applied; it is for this Reason I wou'd advise no Body to make use of it without the Direction of an able Physician. The extraordinary Virtues which the Spaniards attribute to this Kinquina, for the Cure of Fevers, is the Reason why they give the Tree that bears this Bark, the Name of Palo de Calenturas,

which fignifies the Fever-Wood: Kinakina, Quinquina, Cortex Pe-

ruviana. The Peruvian, or Fever- Lemery. Bark, is call'd so from the Tree that produces it in Peru, where it grows, about the Size of our Cherry-Trees; the Leaves are round and indented; the Flower is long, of a reddish Colour, and is succeeded by a Pod, which contains a flat Kind of Kernel that is white, and enclos'd in a very thin Skin. There are two Sorts of it, one cultivated, and the other wild; the Cultivated is to be prefer'd much before the Other: It contains a great deal of fix'd Salt, and abounds with an Oil; it cures intermitting Fevers best us'd in the Powder, finely fearc'd from a Scruple to two Drams the Dofe: There may be likewise an Insusion made of it in Wine or Water for the same Intention. Some fay that Bark is best which is of the most lively Coobserve in the Bark are, that it be heavy, of lour, and inclining to a dark Cinamon, a firm Substance, found, and dry; and be- most curled up, as coming from the maker ware of such as is rotten, and will suck in Branches of the Tree, that breaks of a thining Colour, is of a bitter Tafte, very a dy, or Spirit of VVine, whereof take half stringent, or rough and styptick upon the an Ounce. Tongue, and whitish outwardly: The thick, flat, dark-colour'd, is nothing so good; and if it wants its bitter Taste and Stipticity, it is

good for nothing.

of intermitting Fevers or Agues; and so certain it is, in effecting this Cure, that it sel- Constitutions, the Dose is to be less, but dom fails in a skilful Man's Hand: Besides oftner, and longer continu'd: In Tertian which, Experience tells us, it stops Catarrhs, and all Sorts of Fluxes; but the great Skill of a Physician is to know to whom, when, how to use it, and how long: First, considering the Nature and Quality of this Medicine, it is evident, it ought not to be given to such as have their Courses stopt; or to such with whom they feldom flow kindly, but come down pale and sparingly; nor yet to such as are costive in their Bodies, or are commonly troubled with a Constipation of the Bowels; for to fuch, the Use of this is generally of ill Consequence; nor ought it to be given in continual burning Fevers, because it fixes the morbifick Matter, stops the Pores, and so encreases the Heat, and concenters it, that it infallibly destroys the Patient. Secondly, When it ought to be given, the Persons to whom we allow it to be given, ought to be prepared for the Use of it, by fome proper Vomits or Purgatives, such as the Ipecacuana, the emetick Wine or Tartar; and purge with Glauber's Sal Mirabile, or Solutivum, Creme of Tartar, and the like, two or three times at least, before the Use of the Cortex.

Thirdly, You ought to know how it should be given, which is in Powder, from a Scruple, or half a Dram, to a Dram or two; beat it very small and searce it; and about an Hour after the Fit is gone off, put your Quantity of Powder in a Glass of good strong White-Wine or Claret, and drink it off: There are several other Liquors this may be taken in, according to the Fancy of the Parient. In Infusion, take fine Powder of the Bark one Ounce, Claret ten Ounces; infuse four or five Days, shaking it twice a Day, than decant it clear; or two, or fometimes three Days: by which it appears it is given in double the Quantity in Infusion, to that second Fit, or at most at the Third: The of the Powder, because you take the last in Substance; you may make a Tincture with Bran- double Quartan, wherein you have two

In the Fourth Place you ought to confider how long, or often, the Bark ought to be taken: Herein you must have Regard to the Nature of the Fits, their Strength and Ac-It is a Specifick for the Curing of all Sorts cidents that attend them, as Season, Temparature, Use, &c. In Children, and tender Agues, it ought to be used at the End of the Fit, and taken at different Intervals, till the next Return; when that is over, the Remedy must be repeated in the same Manner. 'till the Expectation of another Fit; what Intervals of Time are to be observed between each Dose, depends on the Quantity of the Powder, or Strength of the Infusion, or Length of the Intermission between each Fit: The stronger the Infusion, the longer Space of Time is to be between each Dose: and if the Intermission of the Fits is long, there is no need of repeating the Doses fo often, as if the Intermission was shorter. The whole Quantity, from the First to the Last, ought to be about an Ounce and Half. or two Ounces; let it be given an Hour or two before Meat, and two or three Hours after; and if it be an Infusion, let the Dose be about four Ounces.

To prevent the Return of the Ague, this Method ought to be continued for eight Days, three times a-Day: First, early in the Morning, then an Hour before Dinner; and at Night, an Hour before Supper; but if the Ague shou'd return again, as it does, if you purge after it, the Use of the Bark must be repeated after the same manner as before, and it will not fail to produce the defired Effect, which is absolutely to cure the Ague, fo that it shall not return any more. But tho the Ague seems to be perfectly gone, for several Revolutions of Fits, yet it is necessary to continue the Use of the Remedy, for twelve Days, by which Means you will fecure the Patient against any fresh Assault.

It is at the End of the Fit that the Dose is to be given, and it must be continued 'till the Cure is perfected; which in a fingle and double Terrian, commonly happens at the fame is to be understood in a fingle and

tinuance of it, which causes the Relapse, and puts the Patient to a new Trouble of

running over the same Course again.

This Medicine ought not to be given at the coming on of the Fit, nor yet during the Time of it; because then, instead of alleviating of the Force and Violence of the Ague, it wou'd be apt, by reason of the febrifick Ferment, to excite a fiercer Conflict, and make the Paroxysm the more violent: This Method being observed, the Medicine will intercept the Course of the Disease in its Progress; and being convey'd into the Mass of Blood, by a gentle Motion, it purifies it. and destroys the feverish Ferment, which wou'd produce a new Fit: It ought likewise to be given at feveral times, to produce, gradually, the wished-for Effect; and but a small Space of Time ought to be allowed between each Dose, that the second Dose may begin its Operation, when the Force of the First is over; and the Third may begin to act, when the Strength of the Second is loft: It is given in like manner two or three Hours before Meals, or two or three Hours after. that thereby its Vertue may the better unite it felf with the Chyle in the Stomach, in Order to its Entrance into the Mass of Blood, to correct, depurate, and renew it: If this Course is pursued, the Cure is in a Manner certain and infallible, and it will hardly be possible for the Fit to return again. When the Paroxysm is gentle, in a good Habit, and a good Season of the Year, there is no Need of giving it above five or fix Days together, once or twice a Day in the Intermiffion; but when the Paroxysms are strong, oftener, 'as before directed.

7. Of the Bark of both the Mandrake Male and Female.

His is the Bark of the Root Pomet. of a Plant that is distinguish'd

whole Days to give the Medicine in, with- I shall not trouble my felf with the useless out Interruption; in which, as in the Ter- Accounts that the Ancients have given of tian, the Ague is master'd at the third and this Root, but inform you that both Sorts are fourth Fit, if not at the very First, which often very scarce about Paris, so that the Apothehappens; and to prevent its Return, the Use caries are oblig'd to leave out the Leaf of of the Bark is to be the longer continued af-ter the Cure; for 'tis the too foon Difcon- Composition of the Ointment of Poplar, which is a great Abuse; it being impossible that the Composition can have the Virtues the Author of it design'd, or that are now ascribed to it, when the principal Druggs are lest out: Besides, the Apothecaries, instead of making this Ointment fresh every Year, keep it Two or Three, which is contrary to the Opinion of those Authors who treat of this, and fay that the cooling Quality of the Ointment Populeon holds not above a Year. Those Apothecaries, about Paris, who will have this Composition true, are forced to fend for it from Montpellier; by which Means they discharge their Consciences, and ferve the Publick faithfully.

The Mandrake, as it grows, bears large green Leaves, trailing or hanging upon the Ground, and the Fruit is very like that of the Coloquintida; but I think it needless to speak of the Distinctions betwixt the Male and Female Mandrake, these being treated of by so many Authors: 'tis enough to say we fell nothing but the Bark of the Root, freed from it as clean as possible we can get it; 'tis of an Ash-Colour within, and a little more reddish withour, of some small Use in Physick, as it is put into some of the Galenical Compositions; with the Bark we have sometimes some of the Root brought us cut into Pieces like Jalap, but 'tis of little Use, the Heart of it having no more Vertue than

a Chip.

8. Of the Female Mandrakes

HE Bark of this very much resembles, in Size and Colour, the large or gross Cinamon, except that it is more decay'd on the Out-fide, and of the Colour of a broken Nutmeg within, distinguish'd with many little Sparkles; it is very light and spongy, of an almost insipid Taste, and without Smell; they bring it from the Levant to Marseilles, from when it comes to us. This into two Kinds, Male and Female: is of no other Use, than as the Choilan to add

Person assur'd me that it grew about Paris, and gave me a Piece of the Bark, which is something like it, but of a bitter Taste, and an earthy Colour without any Sparkles.

The Mandrake is a Plant without a Stem, of which there are two Kinds, first, the Mandragoras Mas fructu rotundo of Tournefort ; the Leaves rife directly from the Root, above a Foot long, broader than a Man's Hand in the Middle, and narrow at both Ends, smooth, of a brownish green Colour, and a disagreeable Smell; among these rise short Stalks, each of which bear a Flower made like a Bell, divided commonly into five Parts, a little hairy, of a white Colour, inclining to Purple: When the Flower is gone, it is succeeded by a little round Apple as big as a Medlar, fleshy, and of a yellow green Colour; it contains some white Seeds, which bear the Figure of a small Kidney: The Root is long, thick, whitish, slit, or divided into two confiddrable Branches, fet about with short Filaments, slender almost as Hairs; reprefenting, when it is whole, the lower Parts of a Man, from whence it is call'd Anthropomorpha, which fignifies the Figure of a Man.

The second Sort is call'd the Female Mandrake, Mandragora Famina, or Mandragora, flore subcaruleo purpurascente, according to Tournefort, the Mandrake with a bluish purple Flower: It differs from the Former, in that the Leaves are smaller, narrower, more folded, blacker, trailing on the Ground, of a strong stinking Smell; and that the Flowers are bluish, inclining to purple; the Fruit less and paler, not form'd like a Pear, as some Authors will have it, but round, scented, full of Juice, and containing very small black Seeds; the Root is about a Foot long, divided into two Branches, brown without, white within, and furnish'd with some Fibres, but nothing like the former: Both Sorts grow in the hot Countries, in the Plains, or mountainous Places, but the Last much rarer: They contain in them a great deal of Oil and Flegm, but little Salt; they are narcotick, cooling, stupefying, &c. applied outwardly, and likewise relieve Inflammations of the Eyes, Eryfipelas, scrophulous Tumours, and the like: The Apples are cold and moift, but not

to the Perfection of Carmine Colour. A fo cold as the Root; being smell'd to they cause Sleep; so also their Juice taken inwardly, in little Quantities, in a good generous Wine: Some pick them, and so eat them; others eat them with Pepper and hot Spices; the Antidote against their Poison is Worm-Wood, Rue, Scordium, Mustard, Origanum, Castor, &c. with Wine and Vinegar. The Ancients, by Mandrake, intended another Plant quite different from this.

9. Of the Cork-Tree.

ORK, which the Latins call Suber, is the outward Bark of Pomee. the Trunk of feveral Trees, which grow plentifully in Spain, Italy and France. chiefly in Gascony, and upon the Pyrenees. The Leaves of these Trees are of a moderate Size, green without, and whitish within-side, indented all round, it bears Acorns like those of the Oak.

When the Inhabitants of those Parts wou'd make a Crop of this Commodity, they take off the Bark of these Trees from the Top to the Bottom, and after put one Piece upon another, to a reasonable Height, in a Pit or Dirch that is full of Water; and having loaded it with Weights to keep it down, they leave it in this Condition for some time, and when it is well foak'd, and laid straight, they remove it to another Ditch, and so to a Third and Fourth; and after that take it out of the Water to dry, which being done, it is transported in Bales to different Parts of the World.

Chuse your Cork in fine Boards, all of a Piece, not full of Knots or Chinks, of a moderate Thickness, yellowish without and within, and when it is cut entire: We commonly call this Cork, white Cork of France, because this Sort is made in Guyenne, chiefly about Bayonne, from whence almost all that is used in France comes. We bring from the fame Parts another Kind of Cork, we call Spanish Cork, which is likewise according to its usual Quality light, plain, blackish without, as if it had been burned, yellowith within, and easie to cut, not rotten; but take the thickest Sort you can get, that being much more esteem'd, and dearer than the Thin. A Friend of mine affured me, that the BlackBlackness of the Cork proceeded from no- Gerard and Parkinson, or the Suber Latithing elfe, but that it was fteep'd in Sea-Wa- folium perpetuo Virens of Tournefort. The

ter instead of fresh Water.

The Use of this is too well known to need any further Account of it, I shall only tell you it is of some small Use in Medicine, as to stop Bleeding, being reduced to Powder, or thrown into some aftringent Liquor, or to hang about the Neck to dry up Milk in Nurfes Breasts; and the same burn'd, and mix'd with a little fresh Butter and Sugar of Lead, is very proper for the Piles. The Spaniards burn Cork into an extraordinary Black, which is what we call Spanish-Black, and us'd for several Sorts of Work.

There are besides a great many Sorts of Barks, in which we have no Trade; as the Bark of the Root and Trunk of the Tree call'd Macer, the Corn, Hivorahe, and others, which we have but little of, and nevertheless are reckon'd good Medicines, as may be feen in Costus and other Authors, who have wrote Histories of Indian Druggs, to which the Reader may have Recourse; but as many People make use of Mace in Bloody-Fluxes, some sell this Macer in the Room of that, believing it to be the same Thing, tho' there is a vast Difference, this being the Bark of a Tree, but Mace the Covering of the Nutmeg.

Lemery. Cork, according to J. Bauhin,

broad-leav'd Cork that is always green, is a Tree of a moderate Height, very much refembling the Oak, but the Trunk is thicker, bearing fewer Boughs, and the Bark is a great deal thicker, very light, spongy, of an ash Colour, tending towards a Yellow, which is taken from the Tree first, and afterwards freed from an inner Bark; the Leaves are like the Oak, but much larger and longer, fofter, greener on the Outfide, sometimes a little indented; the Cups and the Acrons are also like those of the Oak. This Tree grows in the hot Countries, as Spain, Italy, towards the Pyrenees, and in Gascony: That which grows in Spain is different from those that grow about the Pyrenees, and in Gascony, in that the Bark is black on the outward Surface. and the Leaves continue green all the Winter, whereas they fall from the others at the End of Autumn.

The Acorn of the Cork is aftringent and proper in the Wind-Cholick; the Dose is from about a Scruple to a Dram; it contains a great deal of Oil and little Salt, but the Bark has less of the Salt and more of the Oil; it is deterfive and aftringent; it stops the Hemorrhoids and Belly-Aches, being beat to Powder, it is proper Suber Latifolium the broad-leav'd to heal the Piles, being burn'd and applied

outwardly.

BOOK the Fifth.

Of LEAVES.

fetting aside those Trees, or Shrubs, in which such like.

HE Plants here to be treated of are the Branches, or Flowers, are the Parts for only those whereof the Leaves are which they are chiefly considerable: Of this the most useful and effential Part, Class are Tobacco, Tea, Maiden-Hair, and

1. Of Dittany of Crete.

2. Of Poley Mountain.

The Dittany of Crete, or Candia, Pomet. is a Plant of two or three Foot high, whose Leaves are of the Size and Shape of the Nail of a Man's Thumb, white and woolly without and within; after which rise long Flowers in Spikes, of a Violer Colour. This little Plant, which is very beautiful to look upon, grows plentifully in the Isle of Candia, from whence it takes its Name.

Chuse your Dittany fresh and new, with fine, white, large, thick, foft, woolly Leaves, of a sweet aromatick Taste, and prefer such as is furnish'd with the deepest blue Flowers you can get, and refuse such as has small Leaves, not hairy, and where you meet with it fuller of little Sticks than Leaves. This Dittany is of some little Use in Physick, because of its warm aromatick Quality, and is an Ingredient in the Treacle and some other Preparations.

Origanum Creticum latifolium to-Lemery. mentosum, seu Dictamnus Creticus of Tournefort, is a Kind of Origanum, or a fine white Plant agreeable to the high, hairy, a little purplish, divided into Branches or Twigs; the Leaves are the Bigness of the Nail of the Thumb, roundish and pointed, by a small End, cover'd on both Sides with a white Down, odoriferous, and of an acrid pungent Tafte: The Flowers grow Spike Fashion on the Top of the Branch of a purple Colour; when the Flower is gone there follows four Seeds that are almost round, enclos'd in a Covering that serves as a Cup to the Flower: The Roots are small and numerous; it grows in Candia, on Mount Ida, from whence it is brought dry. The Leaves are aperitive, cordial, proper to provoke the Terms in Women, to haften Labour-Pains, to open and remove Obstructions, to refist Poison, and drive away malignant Humours by Transpiration. It is given in Powder for all the same Purposes. Dose to a Dram, and half an Ounce of the Deco-Rion, or Tincture, in White-Wine, for Sickness at the Stomach.

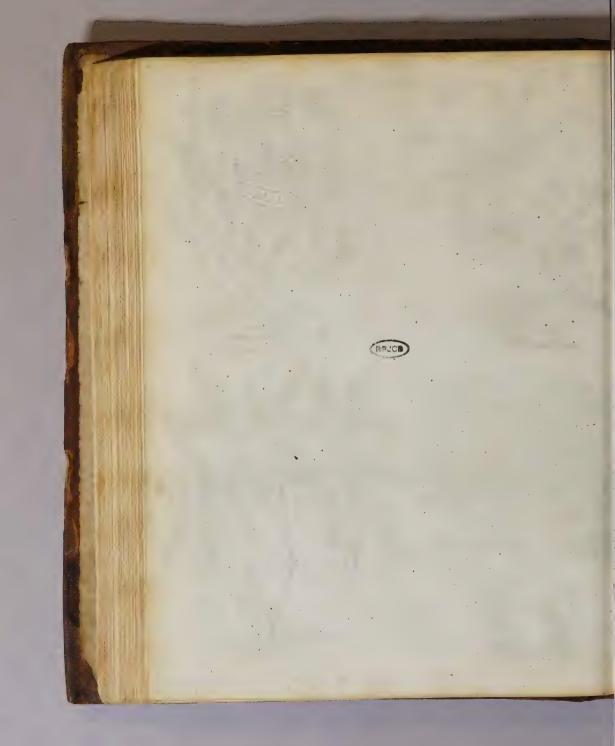
Poley Mountain, call'd Polium Montanum, is a Plant of the Pomer. Height of half a Foot, having small, thick endented Leaves, garnish'd above and below with a fine yellow Down, inclining to a gold Colour, and the Flowers around, which blow in little Stars, of a gold Colour, very fine to look upon. This little Plant grows plentifully upon the Mountains and high Hills about Provence and Languedoc; it is brought to us in little Bunches with that which grows in the Plains, or along the Lanes, chiefly in fandy and other dry Places, being, notwithstanding, very different from the other, in that the Leaves of this are much less, and more woolly, bitterer, and altogether white: They are used in several Compositions of Treacle, and are counted alexipharmack and cordial.

Polium Montanum, or Poley Mountain, is a Plant whereof there are Lemery. two Sorts, one Yellow and the other White. The First is call'd Polium Montanum Luteum, by Tournefort; or Polium

Montanum Vulgare, by Parkinson. It is of Eye, the Stalks grow about two Foot a small Height, very hairy and woolly, high, hairy, a little purplish, divided into bearing a great many slender, round, hard, woody Stalks; the Leaves are fmall, oblong, thick and indented; the Flowers, says Mr. Tournefort, are divided into five Leaves, as the Germander Flower; when that is drop'd, fmall round Seeds follow, that are enclosed in a Covering, which ferves as a Cup to the Flower: This Plant grows on mountainous and rocky Places in Languedoc, Provence and Dauphine.

The second Sort is call'd Polium Montanum Album, by Tournefort, &c. and the Poley Mountain of Montpellier, by others. It differs from the Former, in that the Stalks lie upon the Ground; the Leaves are less, and not fo full of Cotton; the Flowers are whiter, and less scented. This Plant grows not only on the Mountains and hilly Places, but likewise in the sandy dry Plains, by the Road Sides, in Languedoc and Provence. The Yellow is the best and most valued in Phyfick: This Plant yields a great deal of ex-





Polii, seu Polium Comatum, or Poley-Hair.

They are aperitive, cephalick, fudorifick, vulnerary, provoke Urine and the Terms, refift Putrefaction, fortifie the Brain, and expel malignant Vapours from the Head and Heart.

3. Marum, or Herb Mastick.

THE Marum is a little Plant that looks pretty to the Eye: the Leaves are greenish, and very fmall, of the Shape of Iron Spikes, the Tafte very bitter and disagreeable, and therefore it is called Marum quasi Amarum, as being bitter. After the Leaves come Flowers in Spikes almost like those of Lavender, which are of a purple Colour, and strong scented.

green as possible; it is little used in Physick, &c. only in the Composition of some Troches, and the like: But as this Plant is scarce, the Aporhecaries substitute Amaracus, which is what they call fweet Marjorom.

Marum is a Plant that has two Pomet. Lemery. Species; the First is call'd Chamadrys Maritima incana frutescens foliis lanceolatis, according to Tournefort, which is the hoary Sea Shrub by Germander, with Spear-pointed Leaves. It is a Sort of Germander, or a little Plant which grows like Thyme, with a great many Branches, or little round Twiggs, woody and whirish. cover'd with Leaves larger than those of Garden-Thyme, and liker wild Thyme: The Flowers like those of Germander, of a purple Colour: When the Flower is gone it bears in its Place four Seeds that are almost round. The whole Plant has an odoriferous Smell, and a picquant biting Tafte; it grows in the hot Countries, but is introduced now into most Gardens.

The second Kind is the Marum Vulgare, which is a Plant whose Stalks, Branches and Leaves, are like Marjoram, but something higher; for this grows near two or three

alted Oil, and volatile Salt; the Tops are Branches large, it has some Resemblance to chiefly that which they call in Latin, Coma the first Sort of Marum, but a little larger, whiter, and of a bitter, smart Taste. The Flowers and Seeds are like those of Thyme; the Root is woody, and all the Plant of a strong Smell, that is aromatick and agreeable enough: The best is that which grows in Spain and other hor Countries, it requires a dry, stony Ground: Both Sorts abound with Plenty of Oil and volatile Salt, with a little Phlegm; the Marum is cephalick, stomachick, sudorifick, vulnerary and uterine, being good against all cold and moist Diseases of those Parts, Cramps, Convulsions, Burflings, Strangury, and the Bitings of Mad-Dogs, Serpents, or other venomous Beafts, being a famous Alexipharmack. It is likewife useful in all Manner of malignant and pestilential Fevers; Dose from a Dram to two Drams; the Herb is of the Nature of Origanum and sweet Marjoram, and has all This Plant grows plentifully in the Isles their Vertues. The destill'd Oil may be given of Hyeres, near Thoulon, from whence those from two Drops to fix, against cold Headwho cultivate it have it brought; chuse it fresh, achs, Megrims, Vertigo's, Apoplexies, Leodoriferous, furnish'd with Flowers, and as thargies, Palses, Weakness of the Nerves,

4. Of the Indian Leaf.

THE Folium Indum, Thamalapatra, Malabathrum, or Indian Leaf, comes from a large Tree that commonly grows in the East-Indies, about Cambaja.

This Leaf was not unknown to the Antients, any more than many other Druggs, one having writ that it was found swimming upon several Lakes in the Indies; but the most rational Opinion is, that this Leaf comes from a Tree of the Size of the Lemon. After the Leaves, grow small Berries, very like those of Cinamon, except that they are less. We find Leaves underneath, where there is something in the Nature of a little Bladder, of the Bigness of a Pin's-Head, which some People will have to be the

I cannot understand for what Reason the Antients made use of this Leaf in the Composition of Treacle, since it is without Smell or Taste, notwithstanding, when it is fresh gather'd, it is said to have both; but I ne-Foot, being woody, and extending its ver could find that it had any sensible Qua-

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as may be.

Folium Indum, seu Malabathrum, Lemery. or the Indian Leaf, is of the Size of of a pale Green, fmooth, and shining, having three Nerves that run lengthways upon it: It grows upon a Tree that is found in Cambaja, from whence it is brought dry'd. Authors advise us to chuse the freshest, having a weak Smell, when bruis'd, like Cloves, and of an aromatick Taste; but none of the Leaves that are brought to us, have any-thing of these Virtues, but appear perfectly insipid and tafteless. By a Chymical Distillation, other Nations bring us, is in little curl'd or it affords an Oil and a flegmatick Spirit, which contains some little Salt in it. This Leaf is hot and dry, agreeing in Nature and Virtues, as some will have it, with Spiknard; or, as others, Mace: It is warming, digefting, and ftrengthening; comforts a cold Stomach, and helps Digestion. The Powder of the same is diuretick, stomachick, alexipharmack, and an Antidote against the Plague. Dese, from half a Dram is as little broke into Dust or small Powder to a Dram. A Tincture of it in Wine or Brandy, causes a sweet Breath; bathed on serv'd, that comes from Japan, before that the Eye-lids, it strengthens the Eyes, stops of China. the Rheum, and abates the Inflammation.

5. Of Tea.

THE Tea which the People of China and Japan call Cha or Tcha, is the Leaf of a little Shrub, which grows plentifully about Pekin and Nankin in China, and in several Parts of Japan, which is reckon'd the best, and, from its excellent Qualities, is call'd the Flower of Cha or Thee. It is a stender, green Leaf, pointed at one End, and divided at the other, and a little cut or indented round about; and in the Middle of each Leaf, there runs a Filament or String, from whence proceed a Number of little Fibres. In a Word, it is of the Shape of the Figure represented in the Plate, which was taken from the Life. After the Leaves, grow feveral Cods, which are each of the Size of one's Finger's End, of well by reason of the small Quantity they get

lity at all: Therefore, as I am not able to a very particular Shape, like the Areca; in prevent the Use of it, or hinder its Sale, I each of which, is found two or three Berries, shall direct you to chuse such as has the fairest of a Mouse-colour'd Grey without, and with-Leaf, that is large, green, and as little broke in having a white Kernel, very subject to be worm-eaten.

The Japan Tea differs not from that of China, but only as the Leaves are much one's Hand, like the Lemon-Leaf, smaller, and the Taste and Smell more agreeable; it is usually of a finer clear Green. This Variety of Smell, Tafte, and Colour, has rais'd the Price; so that the Japan Tea, as describ'd before, which is the true Sort, of the fine Violet Flavour, will fell for a Hundred and Fifty, and Two Hundred Livres a Pound, which is betwixt Twelve and Fif-

teen Pounds Sterling.

The Tea which the Dutch, English, and twisted Leaves, as it is now fold among us, and is thus prepar'd by the Natives of the Country; who, after they have gather'd it, dry it gently before the Fire, and the Leaves, in drying, curl up just as we now see them: And that the Buyer may not be impos'd upon in this Commodity, which always bears a confiderable Price, let him chuse that which is the greenest, the best scented, and which as possible, and to prefer such, as I have ob-

The Tea is so much in Vogue with the Eastern People, that there are very few who do not drink it; and the French, some Years ago, had it in universal Esteem; but since Coffee and Chocolate have been introduc'd into that Country, there is nothing near the Quantities us'd as were before. I shall say nothing of its Virtues, but refer you to fuch Authors as have treated particularly of it, especially the Sieurs de Four and de Blegny.

I cannot pals over this Article, without laying something of the Flower of Tea, which is what the Person who gave me the Leaves, made me at the same Time a Present of, and which is entirely different from the common Tea, in that it is of a blackish brown Colour, and more of the Shape of a Flower than a Leaf; and, whether this be a Leaf or a Flower, it is so valu'd by the Dutch, that they fell it Weight for Weight with Gold, which is about Four Pound an Ounce, as





above all, when it is new; fo that it abundantly excells the true Japan Tea.

The chief Reason that this is become such a Commodity throughout all Europe, is because the Dutch, &c. change it for Sage, which the Japonese and Chinese are great Lovers of; which is not without Probability, fince we have not a Plant that is endow'd with more Virtues than Sage, especially that Sort, which, for its fingular Goodness, is call'd Sage of Virtue among us, and is the same with the French Sage, or that of Guernsey and Fersey; and it is certain, that if it grew in India, it wou'd be much more valu'd; but because it is common, we make no Account of it, notwithstanding the Latin Proverb, Cur morietur homo cum crescit salvia in borto? Why will anybody die that has Sage in his Garden? So that we need not wonder if the Chinese, &c. exchange Tea for it.

I have thought it proper, in this Place, to refute the Error into which the Author of one of those Treatises, I have mention'd before, has fallen, when he fays that this Tea produces a blackish Seed, which he saw brought into France, and was preserv'd with all the Care imaginable. But this Author was wrong inform'd, fince the Fruit, or rather Berry of the Tea, as I have faid before, is of the Shape of the Areca, and the Size of an Acorn cut in two, and is cover'd trebly with a thin Shell, of a Chesnut Colour. This Author observes, that there is a Febrifick Syrup made of Tea, to which he attributes great Virtues, which those that desire to know farther of, may consult his Treatise for.

The, or Tha, is a very little Leaf, Lemery. which is brought dry'd from China, Fapan, and Siam: It grows upon a small Shrub, from whence it is gather'd in the Spring, at which Time it is little and tender: The Figure or Shape of it is oblong, pointed, thin, a little indented on the Sides, of a green Colour: The Flower is compos'd of five white Leaves, form'd like a Rose, and fome Stamina; which, when gone, is fucceeded by a thick Cod, like a Hazle-Nut. of a Chesnut Colour, in which is found two or three Nuts or Berries, which contain in each a little luscious Almond, of an ill Taste. Surface of the Earth. This Shrub flourishes ledge of it, who will have it, that the best

of it, as from its agreeable Smell and Taste, equally in rich or poor Ground. The Leaf is more us'd for Pleasure in the Liquor we call Tea, than for any Medicinal Purpole; but it has a great many good Qualities, for it lightens and refreshes the Spirits, suppresses Vapours, prevents and drives away Drowsiness, strengthens the Brain and Heart, hastens Digestion, provokes Urine, cleanses or purifies the Blood, and is proper against the Scurvy.

6. Of Sena.

HE Sena, which some call the Eastern Leaf, comes from a Pomet. Plant, or rather a Shrub, of about a Foot high, which grows in feveral Parts of the Levant, and other Places in Europe. This Plant, or Shrub, bears Leaves which are more or less green, and of different Shapes, according to the different Places where they grow. After the Leaves, come little Flowers, of a purple Colour, in Form of Stars; and after them, thin flat Pods, in which are contain'd five or fix small Seeds, likewise flat, and broad at one End, and sharp at the other; and these Pods are what we call Sena Husks.

As Sena is a Leaf that is very common among us, from the great Sale of that Commodity, I must inform you there are three Sorts that are brought to the Market, which we distinguish into Alexandrian Sena, Tripoly Sena, and Moca Sena; and under these three Kinds there are several Sorts, which have no other Difference than from the Places where they are cultivated, tho' the same Species may have a Variety in the Leaves, Flowers, and Fruit, from the Nature of the Soil where it is cultivated: Likewise the finest Sort, and best in Quality, is the Sena that comes from the Levant, which pays a Tribute to the Grand Seigneur, which the Turks call Palte.

Chuse this Sena with narrow Leaves, of a moderate Size, of the Shape of a Spear Point, yellowish colour'd, of a strong fragrant Smell, in a manner sweet, the least broke, full of Sticks or dead Leaves, or any other Filth that may be. This Description of Sena, will undoubtedly appear ridiculous The Root is fibrous, and spreads upon the to some People who have no great KnowI am fatisfy'd that no-body that understands God, which purges more than Sena. There is, Sena, will contradict what I say, and the rather, because I must be allow'd to be a Judge of it, from the vast Quantities of this Drugg that have pass'd thro' my Hands; besides, I have by me the entire Plant, from whence the Figure is engrav'd, as it was brought to me from Aleppo. The Use of Sena is so common, it wou'd be needless for me to say any more, than that it is a very good Purgative.

The second Sort of Sena, is that of Tripoly, which is a green Sena fold fometimes, but very rarely: It comes next in Virtue to the Alexandrian, but is usually more churlish,

stand little of it.

Leaves are long and narrow, that is to say, one Half longer than the true Sena from the ought to have nothing to do with it.

As to the Folliculi, or Sena Shells, their Excellency obliges the Physician to prescribe them more frequently, because they purge very gently, and scarce give any Taste or Smell to the Medicine; otherwise than the them. The Leaves and Pods of all the Sorts Leaf, which gives so bad a Taste, that most People refuse to take that Physick, because of the Offensiveness of Sena. Chuse these Shells thick, large, and of a greenish Colour, so that the Seed which is within, be plump, well fed, and almost like the Stones of for internal Use. You may make an Extract of Sena, by means of Fire and Water, and also a Salt, to which some People affign great Virtues, and pretend, by this way, to make Infusions of Sena of greater Force and Efficacy. Some Authors have writ, that there is Plenty of Sena to be found in Italy, especially in Tuscany, and about Genoa; but I believe that these Kinds of Sena are rather the Leaves of that Plant which the Botanists call Colutea, or, improperly, the wild or baftard Sena; an Account of which, may be feen at large in Botanick Authors.

There is a Plant found in France, which

Sena has great, broad, green Leaves: But the Botanists call Gratiola, or the Grace of besides, another Plant, which the Simplers call Alypon montis Ceti, because it is found plentifully at Cette near Montpellier, which purges more than Sena : Some call this Alypon, White Turbith.

Senna, Folium Orientale, or Sena, is a little longish Leaf, which is Lemery brought dry'd from feveral Parts of

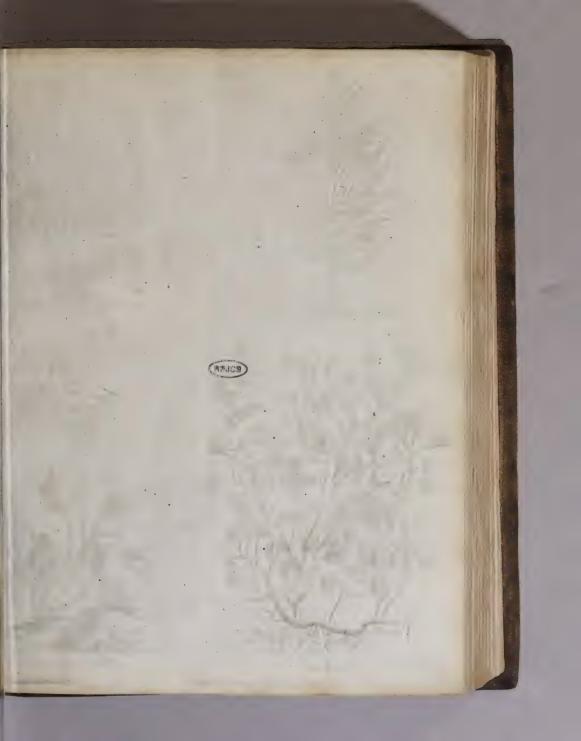
Europe: It grows on a small Shrub, and is of two Kinds; the first is call'd Senna Alexandrina, five foliis acutis, the Alexandrian Sena, or that with sharp pointed Leaves, by Baubine and Tournefort; it carries its woody Stalks and has very little Smell; notwithftanding a Foot and half or two Foot high; from which, it is bought up by those who under- whence comes Leaves that are oblong and narrow, pointed, of a yellowish Green. The The third Sort, is the Moca Sena, which Flowers are made up of five Leaves each; the Hawkers call Spike Sena, because the after which come flat crooked Pods, which some call Sena Pods.

The second Sort is call'd Senna Italica, sive Levant. The ill Quality of this Sena is fuf- foliis obtufis, by Baubine and Tournefore, or ficient to warn you against the meddling with Italian Sena with blunt Leaves. It differs it at all; for as it is good for nothing, you from the former, in that the Leaves are larger, more nervous, broad, and blunter at the End. We are furnish'd by the Merchants with three Sorts of Sena; the first and second of which are call'd the Levant Sena, and the last Moca Sena, as Pomet has describ'd afford a good deal of Oil and Salt.

Other Accounts of Sena, distinguish it into True and Bastard. The True has three Sorts of it; first, the Alexandrian, with sharppointed long Leaves, fresh Smell, good Scent, free from Stalks, smaller or narrower than the Raisins, only that these are flat. Throw such other Kinds, of a lively Colour. This is the away as are blackish and dry'd, and not fit best of all. 2dly, That of Aleppo, which is generally fuller of Stalks and Duft, and has a thorter and blumer Leat, than the former. Chuse that which has a good strong Smell, of a pale Green Colour, well cleans'd, and not musty. This is next in Goodness to the former. 3dly, The Indian Sena, which is much like that of Aleppo in Form, is the coursest Sort of all, and the worst, and becomes fomething worse and weaker by reason of its long Carriage from the Indies hither, being often heated in the Hold of the Ship, where it is spoil'd. The Bastard Sena, is the Colutea, or Wild Sena, spoke of before.









The Leaf of the best Sena, is the most fa- from a Plant the Botanists call Adianthum mous and common Purge against ferous Humours and Melancholy, which it discharges from the Head, Stomach, Lungs, Liver, Spleen, Womb, and Joints; but it gripes sometimes. by reason of the sharp Humours from the Body that joins with it, and upon which they act. It is corrected with Cinamon, Cloves: Galingal, Ginger, &c. It is a general Purger, and may be quicken'd in its Operation by Sal Gem, Salt of Tartar, and Tarrar Vitriolate: It is feldom given in Powder, but in Infusion or Tincture, from half an Ounce to two Ounces. There are eighteen or twenty Preparations of this Leaf, in the most common D. spensatories, in Use, as the Extract Benedictum, Decoctum Sense Gereonis, Quercetan's, Cathartick, and the like.

7. Of Maidenhairs.

THE Capillaries, or Maidenhairs, are little Plants that are brought entirely whole to us from several Parts; the chief and most esteem'd, are those which come from Canada, and are call'd Maidenhair of Canada, and, by the Botanists, Adianthum album Canadense, or the White Canada Maidenhair. This grows about a Foot high, with a very flender Stalk, hard and blackish; from whence there arise small Branches, bearing green Leaves, pretty deep endented, as may he feen by the Figure: It grows likewife in *Brafil*. This is cultivated with great Care in the King's Garden at Paris, as well as other Sorts of Exotick Plants, which are brought from leveral Parts of the World, by Messieurs Fagon and Tournefort, the King of France's principal Physicians.

The other Capillaries that are brought from Canada, are made use of for Syrups, which are boil'd to a good Consistence, and have Ambergrise added to them. There are many Virtues attributed to this Syrup, especially for Coughs, Catarrhs, Diseases of the Breaft, and to administer to Infants new born, with a little Oil of Sweet Almonds. As to the Choice of Maidenbair, you must take such as is newest, very green, and the least broke that you can get.

Other Maidenhairs, and the Syrup thereof, are brought from Montpellier, which is made

album Monspeliense, or the White Maidenhair of Montpellier. The Syrup of this, is different from that made of the Canada Maidenbair; which, when faithfully prepar'd, ought to be of an Amber-Colour, and a very agreeable Tafte. There are other Syrups of Maidenhair, and the like, prepar'd in the Southern Parts, as of Black Maidenbair, Venus Hair, Scolopendrium, and Ceterach; fome add Polipody, Salvia vita, and Liquerice: And all these Plants together make a red Syrup, which they fell as well as the Syrup of Maidenhair. Some Apothecaries distill a Water from the Maidenhairs, and make a white Syrup of it; which fells very well, but has no more Virtue than a plain Dissolution of Sugar. Sometimes there comes from Montpellier, a liquid Conferve of Maidenhair, but it is very scarce, and little enquir'd for. As to the Preparations of the Syrups, I shall say nothing further, but those who wou'd make the Syrup of Maidenhair of Canada or Montpellier, may consult such Books or Dispensatories as treat of them.

Adiantum, or the true Maiden-Lemery. Hair of the Shops is a Plant that bears several slender, blackish Stalks, of about half a Foot, or a Foot high, divided into fine delicate Branches, which are adorn'd with little Leaves, like thole of Coriander, almost triangular, fragrant, and of an agreeable Tafte: This Plant bears no Flowers; its Fruit, according to Mr. Tournefort's Observations, is produced in a Folding of the End of one of the Leaves; which after it is ftretch'd out, it encloses feveral spherical Coverings which are caked to the faid Foldings, and cannot be discover'd but by the Affistance of a Microscope: These Capfula, or Coverings, are furnish'd with, as it were, a Purse-String, which by its Contraction opens it; they contain tome little Seeds in 'em that are almost round: The Root is fibrous and black; it grows in shady, moist, or stony Places, against Walls, or Sides of Wells and Ditches: The Best they have in France grows about Montpellier in Languedoc.

It is brought likewise from Canada, Brasil, and several other Parts of America, where there is a Sort of the dried Maiden-Hair, a great deal larger then ours, call'd by C. Baubine, Adiantum frusicosum Brasilianum

and is the same with the Maiden-Hair of Canada: The Stalk is slender, hard, and of a brownish red, or purple Colour, tending to black, divided into many Branches, which bear little Leaves, almost like the common Sort, long, and indented on one Side, but whole on the other, foft, tender and fragrant; this is what is most valued, as being the best scented of all the Maiden-Hairs. It is common in feveral Parts of America, and especially in Canada; so that the Traders pack up their Goods with it instead of Hay, when they wou'd fend it to a distant Country; 'tis by this Means we have such Quantities of it; but it wou'd be much better if they wou'd pack it up in Papers, or Bags, that wou'd preserve the Scent and Virtue of it: Chuse such as is fresh, green, well scented, whole and fost to the Touch. This Plant contains little Phlegm, a good deal of Oil, but not much Salt; they are pectoral, aperitive, and raife the Spittle, sweeten the Blood, and provoke Womens Courses. They give the Name of Maiden-Hair to four other Kinds of Plants, which in some Measure resemble the Adiantum, and to which they attribute the like Vertues, viz. Filicula, Ceterach, Wall-Rue, and Polytrichum aureum, or Golden Maiden-Hair.

Adiantum Aureum Minus, and Polytrichum Nobile, vel Primum. This is a little Plant about the Length of a Man's Finger, bearing many Leaves, on Stalks almost as sine as Hair, of a yellowish Colour; the Stalks bear on their Tops little longish Heads, the Roots are very little like small Threads: This Plant grows in the Woods, and against old Walls, Bogs and marshy Places; is a good Sudorisck and Antipleuritick, being infus'd half a Handful in a Pint of boiling Water, as you make Tea, and use it after the same Manner.

Polytrichum Vulgare, or the Polytricum of the Shops, Mr. Tournefort has discover'd with his Microscope, that this Plant, as well as the Adiantum, bears a little Seed, roul'd up in the End of the Leaf, which is very small, and almost round, cover'd on the Ribs with a great many light Particles like Dust; the Roots are very small and stringy; it grows like the other Sort, and is reckon'd a good Pectoral, Aperitive, and proper for Obstructions of the Liver and Spleen, and in Womens Cases.

Ceterach of the Shops, or the true Scolopendrium, is a Kind of Maiden-Hair, or a Plant whose Leaves resemble, in some Manner, Polypody, but they are much less, cut in almost round; their Back Parts are reddish, or yellow, hairy, and cover'd with a little scaly Matter: Mr. Tournefort has made a Discovery of a Seed, or Berry, in this Plant, unknown before: This grows in wild Places in the hot Countries; and those of Languedoc call it, usually, Goldy-Locks, because of its near Approach to Hair and its golden Colour: It is Pectoral, and particularly appropriated to the Diseases of the Spleen, and is a good Aperitive.

8. Of Sea-Colewort or Sea-Bindweed.

Soldanella, or Convolvulus Mariti- Pomet.
mus Nostras of Mr. Tournefort:

The Sea Bindweed is a small Plant, whose Roots are slender, and the Leaves like those of the Aristolochia or Birthwort, except that they are less and something thicker; after which grow Flowers, very much refembling those of the common Bindweed, of a purple Colour. This Plant is brought to us entire from maritime Parts, where it grows in Abundance; 'tis of very little Use in Medicine, tho' very good to purge off dropfical Humours; upon which Account M. Brice Bauderon mixes it very properly in hydragogick Powders: You need take no further Care about the Choice of it only that it be new, and as little broke as possible. There is another Sort of Soldanella we fell, and call Pyrola, Sea-Green, or Winter-Green.

The Pyrola so call'd, because the Leaves something resemble those of the Pear-Tree, from whence it takes its Name, and Winter-Green, because it preserves its Verdure all Winter, in Spite of the hard Season; is a Plant pretty common in some Places, as Germany and other cold Countries. And as this Plant is something scarce in these Parts, our Herbarists sell to those who fancy this, the common Pear-Seed, and sometimes the young Pear-Leaves for those of the Pyrola, which is not easie to detect, because of the great Likenes, betwixt the One and the Other: Tis pretended the Decoction of this is a very great Aftringent, and that it is very proper for

for the Cure of Ulcers, and other Maladies a Rose, of a white Colour, having some

of the like Nature.

The Pyrola bears several little Stalks, at the End of each of which is a small roundish Leaf of a brownish Green; from the Middle of the Leaves arises a Stem, whose Top is adorn'd with many little white Flowers, of a very good Smell, and the whole Plant is not above a Foot, or a Foot and an Half high; which makes it very rare in France and other warm Climates.

Soldanella, Brassica Marina, Sea Lemery. Colewort, or Convolvulus Maritimus nostras, according to Tournefort, Sea Bindweed; is a Species of Bindweed, or a small Plant that sends forth slender, winding, reddish Stalks, that creep upon the Ground; the Leaves are almost round, fmooth, shining, like those of the lesser Celandine, but thicker, full of a milky Juice, tied together by long Tails; the Flowers are in Form of a Bell, with the Mouth turn'd upwards, as other Kinds of Bindweed, and of a purple Colour: When these are gone, they are succeeded by Fruit that is almost round and membranous, which contain a corner'd Seed, black or white; the Roots are small and fibrous: The whole Plant has a bitter Tafte, and is a little faltish; it grows near the Sea-Side, and flowers in Summer. They dry it entire with the Root, and so it is transported: Chuse such as is fresh or new. as little broke as may be; it yields a great deal of effential Salt and Oil, purges violent-ly, and is used in Dropsies, Palsies, Diseases of the Spleen, Scurvy and Rheumatism: The Dole is from a Scruple to a Dram.

Pyrola, Winter-Green, or Sea-Green, is a Plant of which there are several Kinds: I shall only take Notice of Two that have some Use in Physick: The First is call'd Pyrola nostras vulgaris, by Parkinson, or Pyrola rotundifolia major, by Tournefort, the greater roundleav'd Winter-Green: It bears from the Root five or fix Leaves, supported each by a long separate Foot-Stalk, by which they trail upon the Ground; from among these rifes an angular Stem, about a Foot high, furnish'd with several little pointed Leaves, which bears on the Top sweet-scented Flow-

thing rifing in the Middle that resembles an Elephant's Snout, which after the Flower is gone becomes an angular Fruit, divided into five Cells, fill'd with a Seed that is as small as Dust; the Root is thin, fibrous and winding, all the Plant of a bitter Tafte, and very a-

ftringent.

The second Sort is call'd Pyrola Minima; it delights much in the Northern Countries, or Pyrola rotundifolia minor, by Tournefort, the lesser round-leav'd Winter-Green: It differs not from the Former, but only as it is less in all its Parts. These Plants grow in mountainous Places, in Woods and Shades about Geneva, in Germany, Bohemia, Moravia, and other Northern Countries, from whence the dried Leaves are brought, but they are very scarce at Paris: Take Care least the Merchant, too greedy of Gain, mix young Pear-Tree-Leaves with them, which it is not easie to distinguish: They are both very astringent, vulnerary, cooling, proper in Fluxes of the lower Belly, Hemorrhoids, and Inflammations of the Breast, being taken in Infusion or Powder; they are likewise used externally in Plaisters and Ovntments, to stop Blood, and to dry up Wounds.

9. Of Anil, whereof Indigo is made.

HE Indigo Plant grows about two Foot high, with round Pomet. Leaves, of a Green, inclining towards Brown on the Out-fide of the Leaf, and Silver-colour'd underneath, pretty thick; after which come Flowers, almost like those of Pease, of a reddish Colour, from whence come long, crooked Pods, refembling a Sickle, or Hook, which enclose a little Seed in them, like the Radish-Seed, of an olive Colour.

When the Americans fow this Plant they first dress the Ground, and afterwards make Holes in it about a Foot distance one from another, and into each Hole they throw ten or twelve Grains of the Seed which they cover lightly with Earth, and in three or four Days time this little Seed will be fure to appear, especially in a wet Season; and in two Months, or fix Weeks, sometimes this Plant will be ready to cut and make Indigo of, as ers that are very beautiful to the Eye, com- the Sequel will show; and if it is left in pos'd each of many Leaves, in the Shape of the Ground three Months, it will yield both

most, upon Account of this Plant, is a Kind of Caterpillar, which in St. Christophers they find sometimes to breed in a Night, and ruine all the promising Hopes of the Inhabitants: The Way they have to remedy this is, immediately to cut down all the Plant, and throw it into the Fat or Tub, with the Caterpillars and all, which yet proves of little or no Use: The other Way to remedy this Misfortune, is to clear a large Space betwixt what they have eat, and what they have not touch'd; this Havock, nevertheless, is not made in Martinico.

Indigo is a Meal or Flower made by Means of Water and Oil-Olive, out of the Leaves of the Anil or Indigo-Plant; for there is a Difference betwixt that made of the Leaves, and of the small Branches. The choicest of the former Sort is that which bears the Sur-Name of Serquisse from a Village of that Name, which is twenty-four Leagues from Surat, and near Amadabat. It is made likewise about Biana of Indoua, and Cossa near Agra, also in the Kingdom of Golconda; the Dutch bring it from Brampour and Bengal,

but that is the least valuable of all.

When the Inhabitants of the Places abovenam'd wou'd make the Flower or Meal of Anil, in order to make Indigo of it; they cut the said Herb with a Sickle, when the Leaves begin to fall upon touching them; and after they have stript them from the Branches, they put 'em into a sufficient Quantity of Water, which is in a Vessel call'd the steeping Fat, there letting them infuse thirty-fix Hours; after which they turn better than that of the Second, and the Sethe Cock, in order to let the Water run off, which is ting'd of a green Colour, inclining towards blue, into a Vessel of the Nature of a Churn, which is work'd by the Labour of feveral Men, by Means of a Rouller, or Turner of Wood; the Ends of which run pointed, and are hoop'd with Iron; this they work 'till the faid Water abounds with a Lather, then they cast into it a little Oil-Olive; to wit, one Pound into such a Quantity of the Liquor as will yield seventy Pounds of Indigo, which is the Quantity now fold in one Barrel; and as foon as the faid Oil is thrown in, the Lather separates into two Parts, so that you may observe a Quantity curdled, as Milk is when ready to break; then they cheat honest People,

the Flower and Seed; but what they fear cease churning, and let it stand to settle; which when it has done some time, they open the Pipe or Cock of the Churn, in order to let the Water clear off, that the Meal which is subsided may remain behind, at the Bottom of the Vessel, like Clay or Lees of Wine: Having decanted it thus, they put it into straining Bags of Linnen, to separate what Water was left, then they convey it into Chefts or Boxes that are shallow, to dry it; and being dried, it is what we call Indigo, and that Name is given to this, in all Appearance, because it comes from India. Sometimes the Indians make their Indigo in a Sort of Ponds, made in Form of a Bason, which they prepare with Lime, that becomes of an equal Hardness almost to Marble.

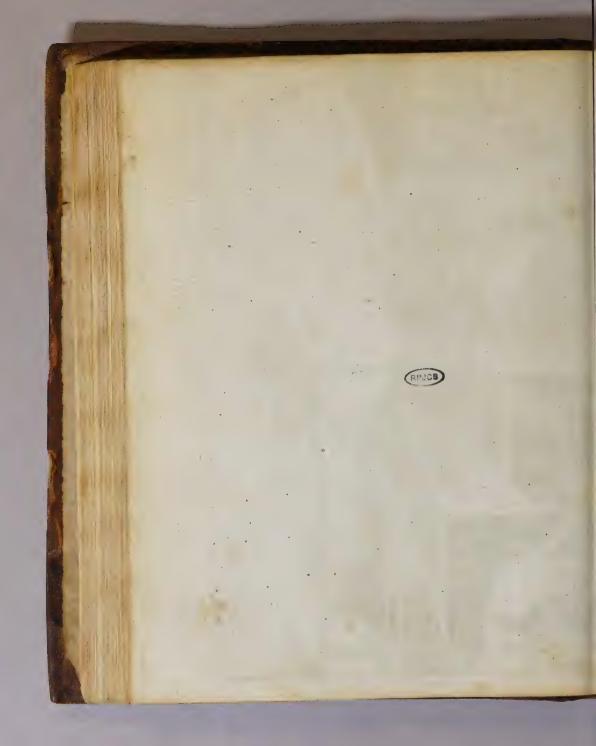
We have no Sort of Commodity lyable to more various Ways of being fophisticated, or counterfeited, than Indigo, when it bears a good Price, which if I shou'd attempt to relate, it wou'd make a small Volume of it self; bur I do not think it necessary, since it is easie to distinguish that that is good from the Bad, by

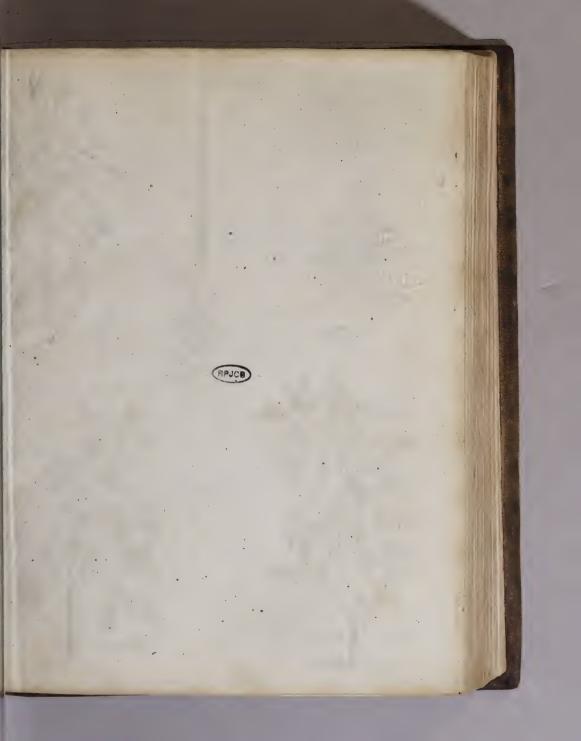
what I shall tell you.

We have another Sort of this Indigo, call'd Agra Indigo, which is almost as good as the Sequisse; but as the Form does not fit, or recommend it to all the World, it is only in Use with the Dyers: There come to us, beside this, feveral other Sorts of Indigo, which have no other Difference, than as to the Places where they are made, and according to the different Seasons and Age of the Herb from which they come; for the Indigo. made of the Plant of the first Gathering is cond better than the Third; and the younger the Leaf is which is used, the finer the Indigo is, being of a more lively, thining, violet Colour.

The Use of the Indigo is for the Dyers and the Whiteners, serving the Last to put among their Linnen to whiten it: The Painters use it to grind with White, for painting in Blue; for if it is us'd alone, and neat, it turns Black, and ground with Yellow in makes a Green. Some Confectioners and Apothecaries very proposterously imploy this to colour Sugars to make Conserves with and Syrup of Violets, by adding some Orrice, which they fell at an under Rate, and









10. Of the other Sort of Indigo.

THIS Indigo is also the Meal, or Flower, made from the Anil, which differs not from the Former, but as it is made of the whole Plant, Stalk and Leaf; the Best of which Kind is that which bears the Name of Gatimalo, which comes from the East-Indies, and whose Excellencies are discover'd in its being lighter, less hard, and in boiling, that

it swims upon the Water.

The second Sort of this Indigo is that of St. Domingo, which differs not from the Gasimalo, only that it is not of so lively a Colour. The Third is the Jamaica Indigo that is brought to England. The Fourth is that of the Leeward Isles, and all the Sorts. which are better or worfe, according as they are more or less neat and pure; for those who make this mix it maliciously, sometimes with Sand and Dirt; but the Cheat is easie to discover, in that the Indigo which is fine and near, will burn like Wax; and when the Indigo is burnt, the Earth or Sand will be lest behind. M. Tavernier observes in his Book, Page 242, that the Indigo Dust is so subtile, and so penetrating, that those who sift it are obliged to have their Face covered, and drink Whey very often; and to confirm this, and make good the Penetration of the Indigo-Powder, he says, having put several times an Egg, in the Morning, near the Sifrers of Indigo, and at Night breaking it, the Infide shou'd be all stain'd thro' with a blue Colour; this is us'd only by the Dyers. Anil, Gali, sive. Nil, berba rorisma-

Lemery. rini facie, or Indigo-Herb resembling Rosmary, is a Plant of Brasil, about two Foot high, the Leaves round and pretty thick; the Flowers are like those of Pease, reddish, and succeeded by long crooked Pods, containing in them Seeds like Radish-Seed, of an olive Colour; all the Plant has a bitter piquant Taste; of this they make Indigo [as describ'd by Pomet before]. The Leaf is reckon'd to be vulnerary, and proper to deterge and cleanse old Ulcers, being applied to the Part in Powder; likewise there may be a Frontal made of it to assume the proper to deterge and the proper to deterge and abate Pains in the Head.

The Indicum, so call'd, because this is pre-

pared only in the East-Indies, is a blue Flower, or Meal, brought from thence, made only of the Leaves of the Anil, by the Means of Water, and a little oil Olive, [as taught before;] there are several Kinds of it, but the Best is that of Serquisse, call'd so from a Village of that Name, where it is made: The next is that of Agra, made in Shape of a Chesnut, from whence it is called so.

There is a Meal made of Anil, that is only diffinguished from the Indicum spoke of before, as being made out of the entire Plant; chuse such of this as is the lightest, neat and clean, moderately hard, and of a fine bright Colour, and that will swim upon the Water, and slame in the Fire 'till it is almost all con-

II. Of Woad or Dyers Herb, &c.

THERE is cultivated in France, especially near Tholouse, a Plant Pomet. which is call'd, in Latin, Istis, or Woad; and by the French, Pastel, Gresde and Serech; they make a Merchandize of this Plant, which bears some Resemblance or Assimity to Indigo, not with Regard to the Plant from which its taken, but as it is made from the Leaves prepared into that which is call'd Pastel, as the Indigo is made from Anil.

This Pastel, or first Kind of Woad, is very heavy and like unto Earth when fit for the Dyers Use: For making of it, the young Leaves are cut at the End of February, or at the Beginning of March, and then put into Places to heat and rot, or to confume 'em away, by moistening them with Water, and stirring them twice a Week, and when the Herb is reduced in a Manner to Earth, and is become dryed; it is dispos'd, or rang'd along with Leaves of the same Plant from whence it was taken; and after having prepared it in the like Manner again, it is repeated by mixing, as the first Time: So that from the End of February, to that of September, they cut the Woad four times, which makes it appear in that Nature, and fills it so with Dirt; for the Pastel, made of the first Cutting, is much more efficacious than that cut in September; as well because it is mixed; as that the Leaves are much harder, and fulIer of Sand and Gravel, occasion'd by the Winds and Rain which last during that Sea-

The Dyers that fpend this Commodity, dry the Drofs or Scum of it; after which it bears some Resemblance, in Colour, to Indigo, and is also fold by the Name of Indian Flower, or Indigo, and which has given Occasion to Authors that understood not the Commodity, to take this for true Indigo, as Dalechamp, and others, did. One may fee, by the present Description, how it is possible, of the young or first Leaves of this Kind of Woad, to make a blue Flower or Meal, like the Indigo. There is another Pastel comes from Picardy, made of an entire Plant, which the Dyers call Yellow, and the Latins Luteola. We make another Sort that comes from Provence, for the Use of the Dyers, the Leaves and Stalk whereof are green; which is what the French call Serech. from the Arabian Word Screth. This Plant is likewise call'd Yellow Herb, or Small Broom, and, by the Inhabitants of the Canaries, from whence it first came, Orisel.

All the other Plants already mention'd, we bring from Portugal, especially from a Place or Sea-Port call'd Porto. We have a certain Commodity, which is nothing else but Leaves and young Branches of a Tree we call, after the Arabs, Sumach, beat or pounded; and is the same that is often call'd, by the Leather-Dressers, Yellow: This Commodity is in great Use among the Tanners, Dyers, and

Curriers, to dye Green with. The best Sumach for dying, is that which is greenish, and new: This Commodity obtains the Name of Port of Port, from the Place it comes from being Porto. There is another Sumach of great Use among the Dyers, made of the pounded Leaves, which ferves instead of the Fruit, which, in the Berry, is of a very fine Red, and a sharpish Tafte ; likewise a pleasant Cure for the Flux of the Belly, being boil'd in Water with the Pomegranate Bark. 'The Fruit, ston'd and dry'd, are what we call Sumach Berries, and have the same Physical Virtues, except that they are not so strong, because of their being dry'd: They will, not keep good above a Year, because their Sharpness and Astringency are then loft.

12. Of the Dutch Turnesole in Paste and in the Cake.

THE Dutch Turnsole is a Paste made with the Fruit or Berry of a Plant which the Botanists call Heliotropium Tricoccum, or Turnfole, which grows plentifully in feveral Parts of Holland, of Perelle, or a dry'd Earth that is brought from Auvergne in France, Lime, and Urine; and after having mix'd these four Druggs together, they are put into little Barrels, that hold about Thirty Pounds. Those that make the Turnfole in Paste, do not sell it altogether soft, but in Form of square Cakes of Bread, which, after it is dry'd, is what we call Turnfole in the Cake : and, as it is mix'd in the Paste when new made, so it is fold : But the Dutch, and others, seldom fail to throw in a Quantity of Sand, as well to encrease the Price, as to make it go off well, and that's the Reafon that the Turnsole in Cake, or that that is dry'd, is reckon'd better than the foft : Besides, this Kind of Turnfole in Cake, being well dry'd, strikes a blue, upon the Violet Tinge; and, being rub'd upon Paper, dyes it blue, being much better than that which makes it red.

12. Of Turnsole in Rags.

"HIS Turnfole is fo call'd, because it is fuch as gives a Tincture or Dye to-Rags that are dip'd in it. What is commonly fold in the Shops, is nothing but old Rags, or old Linnen, dipp'd either in the Juice of the blood red Grape, or that of Mulberries, and so dry'd in the Sun; but this is a Cheat, or an Abule of the first Defign, for the true Turnsole ought to be dipp'd in the Juice of the Berry of the Herb call'd Turnfole. This Plant, which we call Turnfole, the Greeks call Heliotropion, the Sun Follower, because its Flower always turns to the Sun. It bears Berries always three fet together, not much unlike the Palma Christi; whence it is call'd by Pliny, Heliotropium Triccocum, the Turnfole with three Berries, which, when they are at their full Maturity, have within them, between the outward Skin, and the Kernel or Seed, a certain Juice or Moisture, which bepears of a fresh and lively green Colour, but presently changes into a kind of bluish Purple upon the Paper or Cloth; and the same Cloth afterwards wet in Water or White-wine, and wrung forth, will strike the said Water or Wine, into a Red or Claret-wine Colour; and these are the Rags of Cloth, which are the true Turnfole, and ought to be fold in the Druggists Shops, wherewith People colour Gellies, Conserves, Tinctures, &c. as they please: But the chief Use of these stain'd Rags, is to colour Gellies or Tarts, or such like Things, which are frequent at Feafts and Entertainments; as also to colour all Sorts of Tinctures, Spirits, and the like, that are void of Colour.

Of the Turnsole Rags from Lyons.

That of Lyons is compos'd as the other, of Perelle, quick Lime, and Urine, to which fome add Tincture of Brafil Wood, in order to give it a finer Gloss, and to make it of a deeper Red. This is made frequently about Lyons and in Auvergne, it being much deeper colour'd; so that, when rub'd upon Paper, the Colour is very lively.

The Isatis domestica, sive Glastum, Lemery. or the Latifolium of Tournefort, in

English the broad leav'd Woad, or Dyer's Weed, is a Plant that bears its Stalks three Foot high, as thick as the little Finger, round, hard, smooth, reddish, divided towards the Top into abundance of Branches, cloath'd with a great number of Leaves dispos'd without Order, that are oblong and large as those of Hounds-tongue, without Hair, of a deep green Colour, and sometimes tending to a Sea-Green. The Branches are furnish'd with a great many little Flowers, compos'd of four yellow Leaves, like a Cross, ty'd by a slender Foot or Stalk: When the Flowers are gone, there arise in their Places little blackish Fruit, divided into Tongues, flat on the Sides, containing each two oblong Seeds: The Root is about a Foot and a half or two Foot long, an Inch thick at the Top, and growing smaller by degrees downwards, white and woody: They are cultivated in the hot Countries, but particularly in Languedoc, near Toulouse: The Taste is bitter and aftringent: It yields abundance of Oil

ing rub'd upon Paper or Cloth, at first ap- and ffx'd Salt. There is made of this Plant a dry'd Paste, in the Nature of an Extract, which is call'd Pastel, or Indian Flower, which they fometimes colour with Indigo, for the Dyers. This Plant is vulnerary, drying, aftringent: Some People apply it to the Wrist, after stamping it, to cure an Ague or intermitting Fever, in the shaking or cold

The Rhus, or Sumach, is a Shrub which grows fometimes the Height of a Tree: The Leaves are longish, large, indented on their Sides, and reddish; the Flowers dispos'd in Bunches, of a white Colour, each of which makes a little Rose of several Leaves, which being gone, there succeeds a flat Capfula, or Husk, that is almost oval, membranous, and red, containing in it a Seed of the same Figure, which refembles, in some degree, a Lentill, of a reddish Colour : The Fruit has an acid, aftringent Tafte. This Sumach grows in stony Places, and is us'd sometimes instead of Salt, to leason Provisions with; from whence it is call'd Rhus culinaria, or Kitchen Sumach. The Tanners make use of the Leaves to tann Skins, thence it is call'd Rhus Coriaria, Tanners or Curriers Sumach. The Leaves and Fruit are both us'd in Physick: They are very aftringent, proper in the Dyfentery, menstrual Courses, and Hemorhoides. to stop Gonorrhea's, and the like, being us'd in a Decoction, or in Powder.

Tornefol, or Turnfole in Rags, is made of Linnen Cloth dyed at Constantinople, with Cocheneal and fome Acids. The Cotton Turnsole, call'd Portugal or Spanish Wool, is made from Cotton that is flatted the Size of a Crown, and dyed in Spain or Portugal, with Mestich Cochineal. Both Sorts are made use of to colour Liquors, Fruits, and

Gellies.

There is another Kind of Turnfole that is made with Rags dipp'd in a red Tincture. prepar'd with the Juice of the Berry, and a little acid Liquor: It comes from Holland, Languedoc, &c. and is us'd to tinge Wines of a red Colour.

The Turnfole in Paste, or in Cake, or Stone Turnfole, call'd likewise Orseil, is a dry'd Paste made up with the Fruit Perelle, Quick Lime and Urine; the Colour of the Paste will be blue. The Dyers use that that comes from Holland, and they make it at Lyons, but

line 17

it is not fo good.

14. Of Tobacco.

Tobacco, is so call'd, because it is met with plentifully, in the Isle of Tabago; and, by some, it is call'd Nicotiana, because Mr. 7. Nicot, a French Embassador in Portugal, was the first that brought it into France to the Queen Regent; upon which Account it was likewife call'd the Queen's Herb : It is also call'd Antartick Bugloss, because this Herb grows much in those Isles; and Holy Herb, from its great Virtues; last of all, Petum, which is the Name that the Indians give it, and which was the first, and is the true Name for Tobacco.

This Plant, at present, is very common in France, there being few Gardens where it does not grow: But I shall not entertain you with a long Account of it, it having been writ upon by so many Authors, who have Commodity has been agreeable to them.

If the Trade of Tobacco had been free, as it was some Years ago, I could have said fomething more fatisfying upon this Subject; but as we are not permitted to buy any but at the Office, it is for that Reason I shall treat of it only under those different Names it is there call'd by. We buy two Roll and in Powder. That in Roll is distinguish'd by several Names, as the Brasil Tobacco, which is a black Tobacco, of the Size of it as may be: of one's Finger: The second is in a dry red-Tobacco, and is a little black Roll, of the those of Virginia, St. Domingo, &c.

scented and unscented, there are so many Sorts, Wood that is upon the Ground, and freeing it is impossible to treat of them all; for it entirely from all Sorts of Weeds. When which Reason I shall say nothing of them, your Garden is ready, remove your Plants but content my self to relate what Father in a rainy or wet Season, and plant them R. P. du Tertre has writ about it; which is, down again in about three Foot distance That the Inhabitants of the Islands commonly from each Plant to another every way, that cultivate four Sorts of Petum or Tobacco, it may have room to spread, without the

Amazonian Tobacco, Musk Tobacco. The Savages call all Tobacco, without Distinction. Yoly. The Green Tobacco is the most beautiful, and of the finest Figure: The Leaves are a Foot broad, and two Foot long, commonly very subject to decay, and not reckon'd of any great Account. The Tongue Tobacco, is so call'd because the Leaves grow in the Shape of a Tongue, and is very much esteem'd, because it is not at all subject to waste away and damage. These two first Sorts are what are most commonly fold. The Venice, or Musk Tobacco, is much less than the two former; the Leaves are a little rougher, more wrinkled, and pointed at the End, than the others: It is, in Proportion, the least of all, and most inclinable to decay, but most valu'd, and the dearest, because the Leaves have not only a Musk Scent, but the Smoke is perfum'd in the burning of it, with a very agreeable Odour, as that of the esteem'd it more or less, according as this other Tobacco is insupportable to a great many People in the World: But what is further remarkable is, that one Plant of this Musk'd Tobacco will communicate its Virtue to four others, to make it pals for the same; which is usually parctis'd in the Places from whence it comes. Tho' the Manner of cultivating, and afterwards making Tobacco. be common among the Inhabitants where it Sorts of Tobacco of the Farmers, to wit, in grows, it may yet be satisfactory to a great many curious Persons in these Parts of the World, to have as succinct an Account writ

First of all, Sow the Seed, which is mix'd dish Leaf, roll'd the Thickness of a large with five or fix times as much Ashes as Seed. Cane, and is call'd Saufage Tobacco, from be- After you have fown your Seed well, and ing like a Saulage in Shape. There is ano that it begins to rife or spring out of the ther Sort in this Form, that comes from Hol- Ground, cover it every Morning with Branches land. The third Kind is that call'd Dieppe of Trees, to defend it from the scorching Heat of the Sun, which would burn it up, Thickness of a Child's Finger, or threabout. before it was ready to transplant. Make There are several other Sorts of Tobacco, as ready your Garden where you design to raise your Tobacco, that is to fay, your Crop, by As to the Tobacco in Powder or Suuff, clearing, stubbing, cutting, and burning the namely, Green Tobacco, Tongue Tobacco, Leaves touching one another, fo as to make





them for and corrupt. After the Tobacco is infusing of it in Water; and to paint red, putthus planted out, Care must be taken, from Time to Time, to prevent the Weeds from over-powering it. When the Plant is ready to flower, stop it short, by cutting it about Knee high; then pull off the Leaves underneath that hang on the Ground, so that you leave behind about 10 or 12 Leaves upon a Stalk, which being weeded or howed diligently every seven or eight Days, all that Time cleansing away all decay'd Leaves in fuch a manner, that the ten or twelve remaining may be prodigiously encreas'd, and become as thick as a good Skin. To know and try whether it be ripe, rumple or fold a Leaf in your Fingers, which, if it fall in touching, it is ready to cut: Being cut, they leave it spread upon the Ground; after which they string it upon certain Cords, in little Knots, so that the Plants may not touch one another; and so they leave it to dry in the Air Fifteen Days or Three Weeks: And when it is rightly prepar'd, they roll it into what Form is best lik'd by the Buyer.

They make, by Distillation of Tobacco with Flegm of Vitriol, a Liquor that is emetick, or very vomitive, and proper to cure Itch and Scabs, by rubbing lightly with it, There is a black ferid Oil distill'd from it, by means of a Retort, which is much of the same Nature. There is likewise a Salt made large, high in the Colour, and the cleanest of it that is sudorifick, to be given from four Grains to ten, in any convenient Liquor.

There are feveral other Sorts of Leaves, as Betel or Tembul, which are the Leaves of a creeping Plant, and of which the Indians make a kind of Comfit with Areca and burnt Oyster-Shells. The Coca, which is the Leaves of a small Shrub, pretty like those of Myrrh, which the West-Indians use the same way as the East-Indians, mixing it with Betel as the Europeans do with Tobacco. The Inhabitants of Peru use the Leaves of Coca two different ways; the first, in making a Comfit of it with burnt Shells, to secure them from Hunger and Thirst in a Journey; the second, in mixing it with Leaves of Tobacco, which ferves them for a thousand Extravagancies.

a Plant which grow plentifully in Egypt, and in the Levant, and which the Indians emting it in Vinegar, Juice of Citron, Alom-Water, or any other Acids. The Egyptians make an Oil of the same Berries, which is call'd Cyprus Oil, very fragrant, and proper for relaxing and foftning the Nerves. Several Persons have affur'd me, that the Alcanet, or Egyptian Cyprus, is that which the Botanists call Ligustrum Egyptiacum. It is here observable, that there are several other Sorts of Herbs which the Druggists do not sell in Paris, because the Herbarists furnish the Apothecaries with what they have present Occafion for, which the Druggists, in other Towns in France, are oblig'd to fell, having no People that deal in Herbs to supply them; so that it is no little Trouble fometimes to them, when they are obliged to fend three or four Leagues for a Handful of fresh Herbs : But, in Recompence for that Trouble, they understand them better than they do at Paris, which makes the Herb-Sellers fometimes impole upon them one Thing for another.

Besides other Things, we sell a great deal of a small Seed, of a deep red Colour, no bigger than a Pin's-Head, which is found upon the Root of the large Pimpernel, which the Dyers use by the Name of Seed of Cosheneal, and sometimes Wood and Wild Cocheneal. This Cocheneal shou'd be chose fresh, dry,

that can be got.

The Plants of France, that come under the Catalogue of Druggs, are Scordium, Mountain Calamint, Germander, Chamapitys, White Hore-hound or Marrubium, Southern-wood, the great and small Wormwood, Ceterach or Spleenwort, Betony, Avens, Camomil, Periwinkle, Hemlock, Hart's-tongue, Hound's-tongue, Agrimony, Rupture-wort, St. John's-wort, the great and leffer Centaury, Melilot, Mugwort, Mint, Baum, Basilicum, Origanum, Savory, Hyssop, Scabious, Thyme, and several other Herbs, treated of so largely by all Botanists, it will be unnecessary to say any-thing further. We do not sell these Herbs in the Druggists Shops, because of the Herb-Sellers; but we fell the fix'd, effential, and volatile Salts, especially those of Carduus, Wormwood, Mugwort, Centaury, Baum, The Alcanet, or Cyprus, are the Leaves of Sage, Rosemary, Succory, Scurvy-grass, Benn, and several other Sorts. But as to the Choice of these Salts, that honest People may not be ploy in painting their Nails and Hair yellow, cheated in the Purchase of them, which is

Druggift, who instead of any of these Salts. give 'em either Salt-Peter, Salt of Tartar, or Sal-Polychreft, which they put into so many different Bottles, and write the Names of the feveral Salts upon them: Therefore, I fay, to hinder them from being cheated, let 'em throw any of these Salts upon lighted Charcoal; and if they fly off, or sparkle in the Flame, it is certain they are mix'd with Salt-Peter : but it is not so easie to discover the Tartar, but only that this Salt is not so soft to the Touch, as the other vegetable Salts men-

Nicotiana, in English, Tobacco, is a Lemery. Plant whereof there are principally three Kinds; the First is call'd, by C. Baubinus and Tournefort Nicotiana Major latifolia, the broad-leav'd Tobacco, and by Parkin-(on, Tobacco latifolium, the same Thing. There are a great many other Names more curious than instructive, which I shall pass by: This first Kind bears a Stem of about five or fix Foot high, as thick as a Man's Thumb, round, hairy, full of white Pith; the Leaves are broad, and larger than those of Enula Campana, without Stalk, a little pointed, stringy, of a pale, green Colour, glutinous Pomet. in touching, of a sharp burning Taste: Mr. Tournefort says, that the Top of the Stem is divided into several Sprigs, that sustain Flowers made like Bells, cut or separated into five Parts, of a purple Colour; when the Flowers are gone, there is a husky, oblong Fruit succeeds, that is partition'd into two Cells, containing in them a good deal of small, reddish Seed: The Root is fibrous, and of a very biting Tafte; the whole Plant is of a strong Smell.

The fecond Sort is call'd Nicotiana Mijor angustifolia, the great Narrow-leav'd Tobacco, or Hyoscyamus Peruvianus, in Opposition to the First, call'd Hyoscyamus latifolius Peruvianus the Peruvian Henbane. It differs only from the other, in that the Leaves are narrower, sharper pointed, and hang to the Stem by longer Tails or Stalks.

The third Sort is call'd Nicotiana Minor; the small Tobacco, by Baubinus, Tournefort, and Ray, and by Parkinson, Tobaco Anglicanum, the English Tobacco. It bears a Stalk a Foot and Half, or two Foot high, round, hard, hairy, the Thickness of one's Finger,

too frequently done by the Chymist and fometimes branchy, glutinous to the Touch, and carries its Leaves, rang'd alternately. oblong, thick, and of a brownish, green Colour, hanging upon short Stalks; the Flower, Fruit and Seed, are like the first Sort, but the Flowers more inclinable to a yellowith Purple; the Root about a Finger's Thickness, and sometimes divided into white Fibres. that spread themselves round in the Ground. Tobacco is cultivated in fat, rich Land in Gardens, and yields Abundance of a sharp, biting Salt, both fix'd and volatile.

It purges upwards and downwards with a great deal of Violence in the Apoplexy, Palsey, Lethargy, Suffocations of the Womb, and in the Asthma taken by the Mouth, or being fomented with it; applied outwardly to the Part, or smoak'd, it relieves the Tooth-ach; in Powder or Snuff it purges the Nostrils, and excites Sneezing, and is a very good Vulnerary, the Leaf, Oyntment, or Powder, being applied to the Wound.

15. Of Coral.

ORAL, according to Mr. Tournefort, is a Plant that grows at the Bottom of the Sea; it has neither Leaf, Flower, nor Seed; nevertheless it sticks to the Rocks in the Nature of a Root, and is cover'd with a Bark that is adorn'd with Pores like Stars, which descend to the Bottom; it is divided into Branches, which discover Rays that have some Analogy to Fibres: In short, it is undoubtedly encreas'd by its Seed, which is the Opinion countenanc'd by all those that rank Coral among the Number of Plants. It is agreed, at this Day, that it is hard in the Sea; the Softness of the Bark or Crust, which is otherwise smooth, and almost oily, has, perhaps, deceiv'd thole who have afferted that this Plant was foft. The Bark is a tartarous Crust, red upon the red Coral, and white upon the White: The Extremities, or Ends of the Branches, are fost, and also produce little Balls, the Size of a red Goosberry, divided commonly into fix Cells, fill'd with a white Humour like Milk, which makes it a Sort of Tithymal; it is fat, acrid, and astringent. These little Balls are commonly call'd Flowers of Coral, but ought, with





faid Plant: For our Modern Authors have observ'd, that the white Juice which they vield, produces the Coral Plants on any Bodies upon which it falls; and besides the Coral they show at Pisa, which sticks naturally upon & Human Scull: I have feen a pretty large Piece that grew upon a broken Piece of Earthen-Ware.

There are properly but three Sorts of Coral us'd in Physick, namely, the Red, the common white Coral, which has some Resemblance to the red or flesh Colour: The true white Coral, which differs not from the Red but in Colour, is the scarcest and dearest: They use commonly that Sort for the White, which J. Bauhinus calls Coralium Album Officinarum Oculatum, the white Coral of the

Shops, that is conceal'd; the false black Co-

ral, call'd Antipathes, is of no Use at all. They fish for Coral in the Mediterranean, on the Coast of Provence, near Toulon, or Cape Creuse, betwixt Colioure and Roses, upon the Cost of Catalonia, in the Streights which are betwixt Sicily and Italy, towards the Bastion of France, and in some other Parts; as on the Coast of Sardinia, and those of the Isles of Corsica and Majorca. The Coral-Fishing, according to Mr. Tavernier, is from the Beginning of April to the End of July, in which they usually imploy two hundred Barks, some Years more, and some

Years less. As the Coral grows in the hollow Rocks where the Sea is deep, it is a great Piece of Artifice to get it up. The Coral-Fishers tye two Beams of Wood a-cross, and hang a good Piece of Lead in the Middle, to fink it; then they tye Tufts of Hemp about the Beams, which are flightly or carelefly twifted, about the Thickness of one's Thumb, and tye the Beams with two Cords; the One to hang at the Prow, and the other at the Stern of the Bark : fo that the Pieces of Wood are left at the Bottom to run along the Rocks, and catch hold of the Coral in their Paifage: It is necessary, sometimes, to make use of five or fix Boats to get up the Beams; and during that time, if one of the Cables happen to break, all the Branches are in Danger of being loft; for it is a great Risk in the Taking the Coral out. that some does not fall into the Sea; and the

more Reason, to be nam'd the Capsulæ of the Bottom being usually full of Mud, the Coral is apt to waste and spoil, like the Fruits of the Earth; so that the Clearer the Coral is got from the Filth of the Sea, the less subject it is to decay.

Of all the Corals the Red is most in use. as well for Medicine as other things; and of People that value Coral, the Faponese, and other Nations, most esteem the red Coral, as being thicker, more shining, and in finer Branches than any of the Rest, besides its beautiful Colour; and they do not value the little Pieces, and fuch as is covered with a crusty Matter: nevertheless, when that is reduced to Powder, it is every whit as efficacious. By Means of certain Acids, they make a Tincture of red Coral, which is afterwards reduced to, what is improperly called, a Syrup, which is reckon'd an admirable Cordial, and useful to purifie and cleanse the Mass of Blood. There is likewise a Magistery, and Salt, made of this; but the most common Way of using it is, reduced to an impalpable Powder, by lavigating it upon a Marble with Rose-Water, &c.

16. Of Black Coral.

AS to the black Coral, the true Kind is so rare, that it is almost impossible to meet with it; for all that we now have, is only a Sort of Plant that is petrefied in the Water, which some have call'd Antipathes; but it is entirely different from the true Coral, being very light, and more like Horn than Coral; whereas the true Sort is heavy, of a reddish black Colour, and very rough; and with the utmost Diligence I have met with fome, but in very little Pieces, no bigger than the End of one's Finger; but I have a Piece of the common black Coral, of about two Foot long. As to the Coraloides, it is nothing else but white Coral that is not brought to its Persection, and is of no manner of Use, but is sometimes sold instead of the White, tho' it easie to distinguish, it being large, light, and imperfectly form'd.

17. Of Coraline, or Sea-Miss.

THE Coraline, or Sea-Moss, is what gather'd from Rocks, or Shel ... that which is used in Physick comes from loides Squamulis loricatus.

This Moss, or Coraline, is of some small Account in Medicine, as it is pretended to have a Quality to deftroy Worms: As to the Choice, it ought to be greenish, and the most free of Dirt and Filth that can be got.

18. Of Spunges.

SPunges are a Kind of Fungus, or Sea Mushrome, which are found flicking to the Rocks in the Sea. I shall not detain the Reader to give an Account of what a Multitude of Authors have faid concerning Spunges; some saying that they are Male and Female, others that they are neither Plants nor Animals, but both, that is, Zoophytes, which partake of the Animal Kind, and that of Plants too; there are two Sorts of Spunges fold, namely, the Fine, which are those the Ancients call'd the Male; and the Course which are the Female. The greatest Part of the Spunges that are fold, comes from the Mediterranean, and there is a certain Island of Afia, that yields a very large Quantity of Spunges: This Isle is call'd Icarus, or Nicarus, where the young Men are not allow'd to marry, 'till they can gather a sufficient Quantity of Spunges from the Bottom of the Sea; and for this Reason, when any one wou'd marry his Daughter, a Number of young Fellows are strip'd and jump into the Sea; and he that can flay longest in the Water, and give the best Account of, or gathers the most Spunges, marries the Maid, fo that are round, and represent, in a Manner, lithe pay a Tribute, out of his Spunges, to the Grand Seigneur.

The finer the Spunges are, the more they are esteem'd, and they are reckon'd best that are fairest, clearest and lightest, whereof the Holes be small, and the least full of Stones, that may be, as to the course Sort, the nearest they approach to the Fine, the more they are fick.

valued.

would be unnecessary to give any Description grum, or Coral red without, and black with-

Sea, to which it is apt to cling; there are thereof; but after they are prepar'd, by cutfeveral Sorts of it to be met withal; but ting into fizeable Pieces, and put into melted, white Wax, and afterwards press'd to make Bastion in France, and other Parts of the Me- them extend themselves; they are sold to diterranean, which is only what is in Pra- Surgeons, and other People, by the Name of ctice. C. Baubinus calls it, Muscus Cora- prepared Spunges. They are likewise calcin'd to make a Powder for the Teeth: The large or course Spunges have a Sort of little Pebbles, and other extraneous Bodies in them; to which, when reduced to Powder, by Calcination, they affign a Property of curing the Gravel: Some Authors call these Stones by the Name of Cystheolithos, and affirm that fuch of 'em as are to be found in Shape of an Almond, being pounded and mixed in any proper Vehicle, are useful to destroy Worms in little Children.

Corallium, Lithodendrum, or Coral, is a stony Plant, that is found Lemery. growing to Rocks, at the Bottom of the Sea, and crusted over in the Nature of Stone; the Chief of what is fold comes from several Parts of the Mediterranean; There are three Sores of it, Red, white and Black. The Corallium Rubrum, or red Coral of C: Baubinus, grows commonly three or four Fingers high, but such Corals as are found of any confiderable Length, are kept in the Cabiners of the Curious; it bears several Branches without Leaves, that are very hard, smooth, shining, and of a fine Red; the Root is rocky, and of the same Hardness: This Coral is the most used and esteemed in Physick; chuse such as is all of a Piece, polish'd, shining, and of the highest Co-

The fecond Sort is white Coral that grows much about the same Height; there are two Kinds of this, one call'd Corallium Album Oculatum, which is a little stony Plant as the Former, the Ends of whose Branches tle Eyes. The other is call'd Corallium Asperum, the rugged Coral; this is a little strong Shrub, about a Hand high, that is ramous, rough, white, full of Pores, or little Holes, and much lighter than the Former; this last grows not only in the Mediterranean but in the red Sea, and is of small Account in Phy-

The third Kind of Coral is call'd by C. The Use of Spunges is so well known, it Bauhinus, Corallium extra rubens intus ni-

in, but this is very scarce; and there is substituted in its Stead a false, black Coral, call'd Antipathes, which is a stony Sea Dram, in any proper Liquor: Outwardly it Plant, which is usually cover'd in the Sea with a Sort of Bark, or tartarous Crust, of the same Colour: When they are young and tender, the Ends of their Branches are found divided into little Balls, of the Size of a small Gooseberry, that are soft, and distinguish'd usually into fix little Cells, full of a milky Liquor, that is of an acrid, flyptick Taste, and these are call'd Coral Flowers.

Others fay that Coral, while under Water, is green and fost; but once come into the open Air, it changeth both its Colour and its Nature; and from its Greenness becomes of a very delightful, beautiful Red; and from its Softness, of a compacted Firmness, that is hard and durable; it springs up naturally, resembling a Plant or Shrub, adorn'd best, and of that, the Redest, the Palest being of less Use; but in Medicines a small sprig Sort is taken for Cheapnels. The White is next in Goodness; the Best of which is that which is pure, white and clear, almost transparent, free from Dross, and fomething refembling white Wax; the Black is not valued, yet the greatest Rarity of them all. It is observable, that red Coral, infus'd two or three Days in white Wax, melted upon hot Embers, and pour'd an Inch over it, loofes its Colour, and the Wax becomes yellow. Fresh red Coral put into the same Wax, in the same Manner, it becomes Brown; and fresh red Coral put in like Manner, into the same Wax, the third Time, makes the Wax become red; for the Wax diffolves, and draws forth Part of the face of the Coral,

Coral is prepared by levigating it on a he Heart, Stomach and Liver, absorbs Aci- ness. lities, purifies the Blood, resists the Plague, nd the Force of putrid and malignant Feers; stops Fluxes of the Belly, and is proitable in the Gonorrhea and Whites. It is

gainst the Stone in the Bladder, and the bloody Flux: Dose from a Scruple to a helps Ulcers, filling them with Flesh and Cicatrizing. In Collyries it helps the Eye-Sight, stops the Weeping of the Eyes, and

absorbs the watry, sharp Humours.
Of this there is a Tincture made with Spirit of Vinegar, or Juice of Lemons; and from thence a Syrup, Magistery and Salt prepared, but they are all forced, unnatural Preparations: And crude Coral, reduced to fuch an impalpable Powder as aforefaid, is far Superiour to all the other Preparations

Corallina, call'd Coraline, or hard Sea Moss, is of several Kinds; that which we now use in Physick, is call'd Muscus Marinus, five Corallina Officinarum, Sea-Moss, or the Coralline of the Shops; this is a little with many pretty Branches: The Red is bushy Plant, which grows about three Fingers high, bearing a great many little Stalks, that are as fine and slender as a Hair, stony, and furnish'd with very little Leaves, of an ashcolour'd Green, and a fishy Smell, the Taste being salt and disagreeable, cracking or cracklink betwixt the Teeth like small Stones, and being subject easily to be bruised betwixt the Fingers; chuse such as is whole, clear, of a whitish green Colour, and very strong Smell; it yields a good deal of Salt and Oil; it is proper to kill Worms, suppress Vapours, provoke Womens Courses, and stop Fluxes of the Belly. Dose in fine Powder, from half a Dram to a Dram.

The Coralloides is a Plant that is but petrefied in Part, having the Appearance of a little Shrub, but without Leaves: There are feveral Sorts of it which vary in Size, Shape, red, sulphureous Particles, lying on the Sur- Hardness and Colour; they are all usually astringent, as to Passage by Stool, and aperitive by Urine, but of no great Vogue in Marble, into a fine, subtil Powder; it is Physick; it is call'd Coralloides, as being cooling, drying and binding; strengthens something like Coral in Figure and Hard-

Other Authors say, the Coralline is a hard, stony Moss, growing usually on Rocks, in or near the Sea, rising either from the Stones thereof, or from the Shells of Scallops, Oyaid to prevent the Epilepsy in Children, be- sters, and the like; it grows scarce a Hand ng first given in the Mother's Milk as soon high, spreading forth several small Branches, sthe Child is born; it stops Bleeding, helps like a green Herb, with many small, short Difficulty of Urine, and is prevalent a- Leaves like Hairs. It is gather'd on all the

Europe, and is found growing in little white Heart-Burnings, and violent Pains in the Sto-Threads, fastned to the Rock or Shell it mach. springs from, as Moss to a Tree; and if good, is very white, in little Strings, like the Unravelling of course Linnen Cloth, fome an Inch long, fome shorter, some longer, of an unpleasant Taste and Smell.

The Spunge is a Kind of Mushrome, which grows to the Rocks, in the Sea, of which there are two Kinds, [according as Pomet has describ'd 'em already :] But tho' it is taken from the Sea, Authors have nor yet determined in what Class to place it; some thinking it to be neither Vegetable, Mineral, nor Animal; others, that it participates of them all: Some again place it between Animals and Vegetables, and think it partakes of both of them, for that it has an active Quality to dilate it felf, and shrink up together, when in the Sea, and therefore they will have it to be a Plant-Animal; because, in its Nature, it comes near, both to that of an Animal, and also to that of a Plant.

The most Part of Spunges that we use are brought from Smyrna, Aleppo, and other Places in the Levant: Those which are fine, smooth, soft, and not too full of large Holes in them, are faid to grow in the Archipelago; those which are large, fine, close, and lively colour'd, whether White or Yellow, are accounted the Best; the worse Sort are of a dirty Colour, rugged on the Surface, and haid, with small, gritty Stones sometimes in them. The Spunge is of an alkalious Nature, and is good against Pains of the Stomach, Gripings in the Bowels, and the Cholick; and is suppos'd to be a Specifick against the Stone and Gravel, in the Kidnies or Bladder, or any Obstructions in the urinary Passages; the chief Use of it, is either in a Powder calcined or crude.

The Spunge-Stone is found in those Places where Spunges are found, and is made of the Matter of Spunges petrified or hardned. Schroder faith, that it also grows in Spunges, and is a brittle Stone, white or gray. It is attenuating without much Heat, and is good to break the Stone in the Kidneys and Bladder, and to discuss Tumours of the King's Evil, being drunk every Morning in Urine, or in Wine, with Sal gem and Tartar: The

Western Coasts, and the Northern Parts of Matter breeding the Stone and Gout, cures

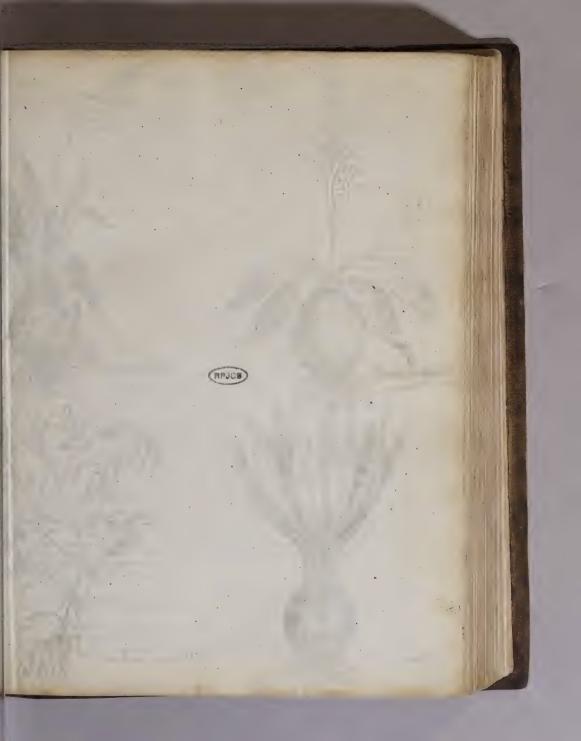
19. Of Squills.

S Quills are Sea-Onions, which are brought from Spain, &c. where Pomet. they grow plentifully, especially on the Sea Shore ; great Quantities also come from Normandy, especially about Rouen; they are of different Sizes and Colours; but those we commonly have, are the red Squills, which the Ancients call'd the Female; the White were known by the Name of the Male Squill, but we meer with very few of them. These Onions bear broad, large, long, green Leaves, and Flowers like Stars, of a fine, white Colour.

Chuse such Roots, or Bulbs, as are sound. heavy, fresh, and full of Juice, and beware of those that are decay'd towards the Head, to which they are subject: They are made use of in the Shops for making Vinegar and Honey of Squills, and Troches for Treacle, and likewise in some Ointments and Emplaisters; as Ointment of Marsh-Mallows, and the Plaister call'd Diachylum Magnum, several Persons have affur'd me, that the Squills which we have from Normandy, are they that the Botanists call Pancratium.

The Squills are reckon'd, especially the Heart, to be Poison, which is the Reason why, when they split them in two, they throw away the dry Leaves, and the Heart, and the middle Part, betwixt both they expose to the Air to dry; and being thus prepar'd, they make use of it, as aforesaid, to make Vinegar, Honey, Wine, Syrup, Lochoch, &c.

Scilla, or the Squill, is a Kind of Ornithogalum, or a Plant, whereof there are two Sorts; the First is the Scilla Major, or Scilla rubra magna Vulgaris, the great, common, red Squill, call'd by Tournefort, Ornithogalum Maritimum, seu Scilla radice rubra, the Sea-Onion, or red-rooted Squill, and by Parkinson the true Pancratium; it bears Leaves of above a Foot long, almost as broad as a Man's Hand, fleshy, very green, full of a bitter, viscous Juice; from the Middle rises an uplevigated Powder absorbs Acids, destroys the right Stalk, of about a Foot and a Half





of fix white Leaves, that are form'd round; of roundish Fruit, rais'd with three Corners, and divided within into three Partitions. which are fill'd with black Seed. The Root is an Onion or Bulb as big as a Child's Head, compos'd of thick Coats or Spheres that are red, juicy, viscous, and encompassing one another, having at the Bottom several thick Fibres.

The fecond Sort is call'd Scilla mascula. the Male Squill, or Scilla minor, seu Scilla radice alba, the leffer Squill, or that with the white Root: It varies from the former, in that the Roots and Leaves are not so large and big; besides, this is white, and less common. Both Sorts grow in fandy Places, near the Sea, in Spain, Portugal, Sicily, and Normandy. We have them brought to us of all Sizes. They contain a great deal of effential Sale, some Oil and Flegm, and a little Earth.

They are hot and dry, sharp, bitter, attenuating, inciding, absterging, discussing, alexipharmack, and diuretick; powerfully cleanse the Stomach, open Obstructions of the Liver, Spleen, Gall, Mesentery; provoke Urine and the Terms, carry off slimy tartarous Matter from the Lungs; for which Reafon they are accounted good against Colds, Coughs, Wheezings, Hoarseness, Difficulty of Breathing, and are fingular against the Scurvy, Gout, and Rheumatism. The Root is prepar'd by rolling it in Dough, or putting it in Pye-crust, and baking it in an Oven, then taking it out and drying it : Being thus prepar'd, it is fit to make Vinegar of Squills. by infusing it in Vinegar; Dose, from one to four Spoonfuls: Or Wine of Squills, by good against Asthma's, Phthisicks, Falling-Dispensatory, especially Quercetan's, Swelfer's the Augustan and London Dispensatories.

20. Of Pot-Ashes, Kelp, or Kali.

we bring from Alicant and Car-

high, bearing on the Top, Flowers compos'd different Sizes. This Salt is made from a Plant that grows along the Sea-coast, which which, when gone, are succeeded by a Sort the Botanists call Kali, and we Salt-wort, Soap-wort, Glass-weed, Kelp, Sea-thongs, Seawrack, and many other Names. This Plant bears a Stalk a Foot and a half high, or thereabouts, furnish'd with small narrow Leaves, as is express'd in the Figure. They fow this Herb, and when it is come to a due Height, they cut and manage it like Hay.

When it is dry'd, the Spaniards make large Holes or Pits in the Ground, in the Nature of a Lime-Kiln; after which, they throw therein a Bundle of the faid dry'd Herb, to which they have put Fire; and when they have cast that in, they throw in another Bundle upon that; and when it is well lighted, they fill it full of the dry'd Herb; and when they have fill'd it, they ftop it up, and leave it all together for some time, that it may not only be reduc'd the better to Ashes, but likewife incorporate, and be capable to form into a Stone or Cake, in which Form it is now. brought to Market; and when they have open'd the Pit, they find the faid Herb burnt into a hard Stone, which they are oblig'd to break and raise up just as they do Stone out of the Quarry.

We fell at Paris four Sorts of Pot-Alkes; the first and most valuable of which, are those of Alicant, which, when they are right, ought to be dry and clean, of a bluish grey without and within, having little Holes made like a Patridge's Eye, and when spit upon and held to the Nose, have no offensive Smell; and beware the Stones be not enclos'd with a greenish Crust, or full of Pebbles, for the first will stain and spot your Linnen, and the infufing it in Wine; which is emetick, and fecond, by encreasing the Weight, will enhance the Price, belides spotting the Linnen, Sickness, &c. given from an Ounce to two, according to the Nature of the Stones that or more. There are several other Prepara- are found within: Likewise take heed that tions of the Root to be met with in every the Bales be not open'd, and the Commodity that was good, exchang'd for that which is This is very much us'd by the nought. Glass-makers, to make the best Glass, and the Soap-boilers likewise use it considerably in the making of white and marbled Soap ; but the greatest Part of that which comes Pomet. THIS is is a grey Salt, which from Spain, is consum'd in Paris, and the neighbouring Villages, by the Scourers of tagena in Spain, cast into Loaves or Cakes of Whiteners, who use it to whiten their Linnen.

Soude, by the Affistance of common Water, a white Salt call'd Salt of Kali or Alkali, which is as much as to fay Soude Salt, because Al is an Arabian Word that fignifies Salt, and Kali, Soude. Thus there are several Salts of Herbs, call'd Alkali Salts, as Wormwood, Centaury, and the like. There are those who pretend that the true Alkali Salt is the Glass Salt, but they deceive themselves, as they may be fatisfy'd in the Chapter con-

cerning the Glass Salt.

The second Sort is that of Cartagena, which only differs from that of Alicant, in not being fo good; neither is it of the bluish Cast, but more crusted, and the Bales are much larger. The third Sort of Pot-Ashes, is that nam'd the Bourde, which is to be entirely refus'd, as being so bad, that it is fit for nothing but to deceive those that buy it: This is usually moift, of a blackish green Colour, and very fetid. The fourth Sort is that of Cherbourg, which is made of an Herb found along the Sea-Coasts of Normandy: This is likewise of a very ill Property, being extreamly humid, of the same Colour and Smell with the last Sort, and altogether fill'd with Stones. These two Sorts are good for nothing but to impose upon the unwary Buyer, and cheat the poor Whiteners.

21. Of Sandiver, or Glass Salt.

THE Glass Salt, which the Workmen call Sandiver, or the Scum of the Glass, is a fat Dross that floats upon the Glass Mettle when it is in Fusion: And this Froth comes from nothing but the Pot-Ashes, which they use in making their Glass; for the Flints that they make use of, will afford no such Scum.

Take such Sandiver as is in very large Pieces, white without and within, heavy, and the likest Marble that can be; and throw away fuch as is fat, blackish, and moist. It is very much us'd by those that make your white Earthen-Ware, because it assists the Sand in its Vitrification. It is very odd that this should be of no Use to the Glass-makers, and the Earthen-Ware Workers wou'd be at a Lofs without it.

Glass is made, being a Sort of a superabun- either to be blown into Horses Eyes, or, being

They make this Salt, which the French call dant Salt, thrown forth from the Metal while melting in the Furnace, and, by the Glass-Men taken off, as the Recrement of their Materials, with a Ladle. It is a very white Salt, and inclining nearest to a nitrous Taste. eafily diffolving in the Air, or any moist Place; for as Glass is made of Sand and Pot-Ashes, the latter being put in to make the former melt into Metal, so this Sandiver is the Superabundancy of that Salt, more than is requifite to go into the Body of the Glass, which being in a Fusion, sends up to the Top whatever is more than requisite for that Purpole. This must be scum'd off, or elfe 'twill make the Glass unfit for working, very brittle, and no ways pliable.

The best Meral will yield, in a Pot of Two Hundred Weight, near a Quarter or Half a Hundred of Sandiver. The weaker the Salt or Ashes are, the greater is the Quantity of Sandiver; they yield some four or five Parts more than others do, for green Glasses. When the Ashes are bad, they are forc'd to fill the Pot four or five times with more fresh Ashes, by reason of the Quantity of Sandiver that is in them, before the Pot will be fill'd with Metal. Whilst any of it is in the Pot unfcumm'd off, they dare not cast in any cold Water to hinder the boiling, for if they shou'd, the Furnace and the Pois would be

blown up together.

This Sandiver serves to make Metals run; and a little thereof put into Antimony and Salt-Petre, for making Crocus Metallorum, encreafeth the Quantity of the Crocus, and it will therewith separate the better from the Scoria.

'Tis fold in France, and there us'd to powder their Meat, and also to eat instead of common Salt: Dissolv'd in Water, and pour'd upon Garden-Walks, it destroys both Weeds and Vermin. The more nitrous and fossile the Salts are, the more Unctuofity they have, and the more they run into Sandiver, to which Nitre comes somewhat near in Colour, Taste, and Fatness.

It is faid wonderfully to dry and heal Scabs and Manginess, the diseas'd Part being bathed in Water in which it is diffolv'd. Parkinson says that Sandiver works much the fame Effect with the Ashes of Kali, or Pot-It is to be had in all Places wherever Ashes; and is us'd often, being ground fine,

diffolved, squirted into them with a Syringe, Hungarian, Dantzich and Roman Vitriol, to take away any Skin, Film, Cloud or Pearl, growing on the Sight. It is also used to dry up running Sores and Scabs, Tetters, Ring-worms, and fuch like Vices of the Skin.

22. Of Cristalline Glass, and many other Sorts, with the various Ways of Colouring them, &c. from Pomet, Lemery, and several other Authors.

GLASS is a Composition, or Mixture of Ashes, or some Alkalisate Salt, with Sand, Crystal, Flints, Pebbles, or other Stones, and melted together into one Body, by the Force of Fire. The first Ingredient going into the Composition of Glass, is Pot-Ashes, call'd by the French, Soude & Roquette; and by the Italians, Polverina, Barillia, Sc. there is little or no Difference in them, but as to the several Places they are brought from, for the best Ashes make the Salt, and the clearest and finest Glass. Pot-Ashes, made of Kali, which comes from the Levant, make a far whiter Salt than Barillia, and by Consequence a more perfect and beautiful Crvstal.

Some use Brass Boilers in making this Salt, which may do where green or blue Colours are to be made; for this strong Lye will fret off some Part of the Metal or Verdegrife, which will damage a Crystalline Glass: In this Case therefore, the better Way is to have the Copper, or Vessel doubly lined with Tin, because that emits no Tincture: Also, in Making the aforesaid Salt, you must mix a Quantity, more or less, of Tartar calcin'd to Whiteness, with your Pot-Ashes, because it makes not only more, and a whiter Salt, and more beautiful Crystal, but likewife opens the Body of the Pot-Ashes, causes a speedier Dissolution, and a better Extra-Rion of the Salt, just as Alum or Vitriol pens the Body of Salt-Peter, in making Aqua ortis, or Spirit of Niter, which otherwise vithout such Addition wou'd not rise.

The second Ingredient that enters the Composition of Glass is Glass Stone, Tarso, or and; and this is what gives Body Confiden-

which otherwise wou'd run into Water, in moist Places and Seasons. Glass Stone is properly all or most Sorts of Stones, which will strike Fire with a Steel; these are apt to virrifie, and make Glass and Crystal withal; those which will not strike Fire with a Steel will never vitrifie; whereby you may partly know the Stones which will, and which will not, be transmuted into a glassy

The third Place is given those Stones which are white, but not transparent, of which Kind is Tarfo, which is a Sort of hard, white Marble found in Tuscany, at Pisa, Seraveza, Carara, the River Arnus, above and below Florence, and in many other Places of the World; that is the Best which is without blackish or yellowish Veins in it like Rust. The Next is a Kind of Pebble, in Appearance like whte Marble, fomething transparent, and hard as a Flint, which being struck gives Fire, and turns not into Lime: This, when first put into the Fire, becomes white and loses its Transparency, and afterwards it turns to Glass.

Where fit Stones cannot be had Sand is made use of; and as some think, and affirm, with good Reason, was the first Material made use of in making Glass; it must be small, white, and very clean, and well washed, before it be us'd, which is all the Preparation of it. This is usually met withal upon the Mouths and Banks of Rivers, and in many Places upon the Sea Shore, and fomerimes upon Inland Sand-Hills. White Crystal Glass requires a fine, clear, transparent Sand, but green Glaffes a more course and brown.

The last Ingredient is Manganese, or Magnesia, so called from its Likeness in Colour, Weight and Substance to the Load-Stone, and is accounted one of the Kinds thereof, which is found in Germany, Italy, Piedmont, Sc. but of late Years, in England, among the Lead Mines, and where ever the Miners find it, they certainly conclude that Lead Oar lies under it. The Potters ipend great Quantities of it, this being the only Materia wherewith they colour their Black, as the do Blue, with Zaffer; that is best which has y and Firmness to Glass, as Iron gives to no glittering Sparkles in it, and is of a blace inglish Vitriol, Copperas, and Copper to kish Colour, but being powder'd of a darl.

ponderous, and the deeper its Colour is, the deeper it colours the Metal in the Furnace, and is to be put into the melting Pot, together with the Polverine, Rochetta, or Potgether with the Fritt. This is the most Universal Material used in making of Glass; is to be made. Hitherto of the Materials, but and is that which only purges off the greenith, bluith Colour which is in all Glass, and makes it not only clear and diaphanous, but also makes it dark, black, red, purple, according to the Proportion which is added. The Manganele of Piedmont, and that of England, which are the Best of all others, make a very fair Murray, and at last leave the Glass white, and take away from it the Greenness and Blueness; the Reason of which Operation seems to be a Change in the Figure, and more Minute Parts of the Metal; for the Fire making the Manganese run, mixes it with the smallest Atoms of the Metal throughout; which by Boiling, and various Agitations and Revolutions of them, form those Reflections of Light, which we call White, Clear, or Diaphanous.

As much Manganese prepar'd must be used in common white Glass, as in that made of Flint, or Crystal; the Quantity of the Manganese is uncertain, and is only known by Practice and long Tryal, and therefore in the Calcar, a Batch: Then it runs into little cannot be positively determin'd, either by Lumps, like Fritters, call'd often in Italian Weight or Measure, but must be wholly lest to the Eye, Judgment, Tryal and Experience of the Artist. In putting of it in, you are to try whether it has enough of Manganele, or no; if it be greenish, give it more Manganese, with Discretion, and put it in by little and little; for otherwise, instead of a clear, white, diaphanous Colour, which in just Proportion it always gives; if too much be added, it will make a Murray, Purple, or Black, and take away the Splendor of the Metal, which otherwise wou'd be clear and fhining; for it is the Property of Manganese, to take away the Foulness and Greafinels which Crystal has, and to make it resplendent, white and clear.

added to the Composition of Glass, which is Salt of Tartar: If the Proportion of twelve Pound of rure Salt of Tartar be added to an hundred Weight of Fritt, it makes it, without any Comparison, much fairer and pliable to work them Ordinary. This white Sort of Fritt for the white Glass

Lead Colour: 'Tis a Stone very hard and Salt of Tartar must be very pure, and put in when the Fritt is made, and then be mix'd with the Glass Stone, Tarso or Sand, to descend to the Inftruments, and the Manner of working in the Glass, wou'd be beyond the Scope and Intention of this Performance, therefore I shall proceed to shew you how to turn your Materials into Fritt, of which Glass is made and fashioned.

Fritt is nothing else but a Calcination of those Materials which make Glass; and tho they may be melted, and make Glass without Calcination, yet this wou'd require Length of Time, and occasion much Weariness, and therefore this Calcination was invented to calcine the Fritt in the Calcar; which when it is calcin'd, and the Proportion of the Materials, is adjusted to the Goodnels of the Pot-Ashes; it presently melts in the Pot, and admirably clarifies. Fritt feems to be deriv'd from frittare, to fry; fince, indeed, it is nothing else but Salt or Ashes mix'd with Sand, or Stone, in fine Powder, and so fry'd, or bak'd together; the English call the whole Quantity, bak'd at a Time Fritelle, or little Fritts.

It is of three Sorts; First, Green-Glass Fritt, made of common Ashes, without any Preparation of them, other than Beating them to Powder, and a hard Sand fetch'd from Woolwich in Kent. Secondly, Ordinary white Fritt, made of Athes of Polverine, or Barillia, without extracting the Salt from them, which makes common white Glass. Thirdly, Cryftal Fritt, made with Polverine, or Pot-Asses, and Salt of Tarrar, with white Crystalline Sand, Crystal, Pebbles or Flints. The Materials must be finely powder'd, washed, searsed, and then incorporated well together, which put into the Calcar, will exactly mix in the smallest Par-A fourth Ingredient also, has of late been ticles, and minutest Atoms; for otherwise the Salt and Sand will, in the melting Pot eafily separate one from another, which the are apt enough to do were they not fir's

with the Rake. To make the fecond Kind, or commo

thorow beat and fearle again: beat also finely, and fearle your Tarfo, Crystal, &c. Take of the Athes, &c. one hundred Weight, of the Stone from eighty to ninety; pure white Crystalline Sand, wash'd and freed from all its Filth, fix Pounds; mix all together, then put them into the Calcar, or calcining Furnace when it is hot; at first mix and spread them well in the Calcar, with a Rake, that they may be well calcin'd, and continue this till they begin to run into Lumps, the Fritt will be perfectly wrought in five or fix Hours, being stirr'd all the Time, and a fufficient Fire continued; when you wou'd fee whether it be enough or no, take a little of it out, if it be white, yellowish and light, 'ris enough: The Calcining it more than five or fix Hours is not amiss; for by how much the more it is calcin'd, by so much the better it is, and the sooner it melts in the Pot: and by standing a little longer in the Calcar, it loofes the Yellownels and Foulnels, which it wou'd communicate to the Glass, and becomes more clear and purified.

It is here to be noted, that in Italy, and other Places, when they take the Fritt out of the Calcar, they throw upon it a good Quantity of cold Water while it is hot, then fet it in a Cellar, from whence a Lye will drop, which may be strengthen'd with calcin'd Tartar to be kept for Use, with which they now and then water the Fritt, which being heap'd up together in a moist Place, the Space of two or three Months, or more; the faid Friet grows into a Mass, like a Stone, and is to be broken with Mattocks; this, when it is put into the Por, foon melts and makes Glass as white as Chrystal; for this Lye is thought to leave, upon the Fritt, its Salt, which produceth this Whiteness, and makes it easier to melt, and more Crystalline, as

aforesaid.

To make Crystal Fritt, commonly call'd Bollito: Take of the best, clear Pebbles, Crystal, white Marble, Tarso, or Flint, ground small in a Mill, and sears'd as fine as Flower, two hundred Pounds; of pure Salt of Polverine, or Por-Athes, fifted also, one hundred and thirty Pounds; put them into the Calcar when it is well heated; for shou'd made: At first, for an Hour, make a tempe- This Sandiver damages the Mettal, and

fearfe the pure Pot-Ashes, and what will not go rate Fire, and always mix the Fritt with the Rake, that it may be well incorporated and calcin'd; then increase the Fire, always mixing the Fritt well with the Rake, for it is a Thing of great Importance, which you must continually do for five Hours, continuing a strong Fire; then take the Fritt out of the Calcar, being perfected, and put it in a dry Place, on a Floor, and cover it well with a Cloth, that no Filth, or Dust, may fall upon it; and you must take care of this, if you wou'd have good Crystal. The Fritt, thus made, will be white as the purest Snow. If the Tarfo be lean, you may add to the Quantity ten Pounds, or more, of the aforefaid Salt; but this is to be done after making Tryal; you ought always to make Tryal of the first Fritt, by putting it into a Crucible, and fetting it into the Furnace, if it grow clear suddenly, you will know whether it be well prepared or not, whether it be soft or hard; and whether any more Salt is to be added to it, or to be diminished. This Chrystal Fritt must be kept in a dry Place where no Moisture is; for by Moisture it will suffer Damage, grow moift, and run to Water, and the other Ingredient remain alone, which of it self will never vitrifie: This is not to be water'd as the Former, but may lye three or four Months; after which it will be much better to put into Pots, and fooner grows clear.

Green Glass Fritt, of which we have yet faid nothing, is a Composition made of groffer Materials; to wit, of common Ashes, without any Preparation of them, or else of Gobbers ground to a fine Powder, and a hard Sand; this requires ten or twelve Hours baking, more or less, according to the Goodness and Softness, or Hardness of the Sand and Ashes. When the Fritt is put into the melting Pots, to be made into Glass, in the Second, or Working Furnace, whether it be green Glass, white Glass, or Chrystal Frite, it is to be melted, and kept fo long in Fusion till it is purified and refin'd, before it is wrought: It purifies it felf by fending up a Scum to the Top of it, which is a superabundant Salt, cast forth from the Metal, and by the Work-men is call'd Sandiver, and is to be taken off with the Scummingthe Calcar be cold, the Fritt wou'd never be Ladle, as the Recrements of the Materials.

makes the Glass obscure and cloudy, being always very foul, and therefore is continually to be fcumm'd off, and taken away, as long

as any of it rifes.

To reduce Glass again into its first Principles; take Glass in Powder, what Quantity you please, Pot-Ashes, as much; mix or melt them in a strong Fire, which immediately put into warm Water, fo the Glass will diffolve, the Salt will melt and mix with the Water, and the Sand, &c. will fall to the Bottom; by which it appears, that the Fusion of Glass is not the last Fusion, or beyond any Reduction. Helmont saith, if you melt Glass in fine Powder, with good Store of Sandiver, and fet them in a moist Place, all the Glass will soon be resolv'd into Water, whereunto, if you add as much A. qua Regis as will suffice to saturate the Sandiver, you shall find the Sand presently settle to the Bottom, in the same Weight in which it was first put in; for the Salt in the Glass is imbib'd, and taken up by the Sandiver and Aqua Regis, and so the component Parts, analiz'd into their former Principles.

As to the Way of making Prince Rupert's Glass Drops: They are made of green Glass, well refin'd, for otherwise they will not succeed, but crack and break presently after they are drop'd into Water: The best Way of making them, is to take up fome of the Metal out of the Pot, upon the End of an Iron Rod, and immediately let it drop into cold Water, and lye there till it is cold; where observe, First, If the Metal be too hot when it drops into Water, the Drop will certainly frost, and crackle all over, and fall into Pieces in the Water. 2dly, Every one of them that cracks not in the Water, but lies in it till it is quite cold, is fure to be good. 3dly, That the most expert Artists know not the just Measure of Heat requir'd, and therefore cannot promise before-hand that the Next shall be good, for many of them miscarry in the Making, and oftentimes two, or three or more, prove ill for one that hits. 4thy, If one of them be taken out of the Water whilft it is red hot; the small Part of the Tail or Thread it hangs by; so much of it as has been in the Water, will, upon breaking, fall into Dust, but not the Body fair, white, common Glass; but Fritt of the Drop, tho its Cavities are full as the best, whitest and hardest Pot-Ashes, it large. 5thly, If one of them be cooled in great Lumps, makes the Glass, which

the Air, or on the Ground, hanging by fpect, like other Glass. 6thly, The Outfide of the Glass drops that are cool'd in Warer, is close and smooth, like other Glass, but within it is spungy and full of Cavities or little Bubbles. 7thly. The Figure of it is roundish, or Oval at the Bottom, not much unlike a Pear or Pearl, wreath'd from the Beginning of the Neck as it grows smaller, and terminating in a long Neck, for the most Part bended or crooked. 8thly, If a Glass Drop be let fall into scalding hot Water, it will crack and break in the Water, either before the red Heat is over, or foon after. 9lbly, If it be taken out of the Water before it be cold, it will certainly break. 10thly, If they be drop'd into Vinegar, or Spirit of Wine, or Water in which Nitre, or Sal Armoniac have been diffolv'd, or Milk, they never miss to frost, crack, and break to Pieces. 11thly, If drop'd in Oil-Olive, they do not fo frequently miscarry as in cold Water, nor have so large Blebs or Bubbles in them, but some Part of the Neck, and small Threads break like common Glass; and if the Neck be broken near the Body, and the Body held close in the Hand, it breaks not into small Parts, nor with so smart a Force and Noise, as those made in cold Water. 12thly, If you break off the Tip of the Thread, or Neck of one of those made in Water, the Whole will fly immediately into very minute Parts, which will eafily crumble into courfe Dust. 13th, A Blow with a small Hammer, or other hard Instrument, only upon the Body of one of those made in Water, will not break it. 14th, One of them broke in the Hand, under Water, strikes the Hand more smartly, and with a brisker Noise than in the Air; but fasten'd in a Ball of Cement, half an Inch in Thickness, upon the Breaking off the Thread, or Tip of it, it breaks the Ball in Pieces like a Granado. Lastly, Some of them being ground upon a Tile or other Stone, break when the Bottom is a little flatted, and others not till half is rubbed, or ground off.

To prepare white Glass, or Crystal Class Take Fritt of ordinary Pot-Ashes, to make :

call'd Crystalline Glass, not Crystal itself: or very foul; melt it and take off the Sandias to another, cast the White and Crystallike Glass, into Water, that you may have them clear in Persection. You may make them without this Casting into Water; yet it is necessary, if you wou'd have them fairer than ordinary, and may be repeated, if you wou'd have them yet more resplendent, and then you may work them into what Vessel you please. To have the Glass yet whiter, calcine them that they may purifie well, and have but few Blifters; and also add to a hundred Pounds of the Fritt, twelve Pounds of pure Salt of Tartar, which must be put in when the Fritt is made, and so mix'd with Sand, and Pot-Ashes sisted, and then make Fritt thereof, as before; and fo will the Metal be fairer, beyond Comparifon.

Of Colouring Glass.

To calcine Copper or Brass variously, for various Colours: First, This is done by Ferretto of Spain, which is thin Copper-Plates laid in bits upon Sulphur Stratum super Stratum, cover'd, luted, and calcin'd for two Hours, then beaten small and sears'd: Or, adly, It is prepar'd thus with Vitriol, instead of Sulphur. 3dly, You may make a Calcination of Brass, with Sulphur, thus: Take thin Plates in Bits, which lay upon Sulphur Stratum super Stratum, which calcine for twenty-four Hours, then powder and fearle it, and reverberate again for twelve Days: grind, Searle, and keep it for Use to colour Glass of a transparent Red, Yellow, Chalcedony. 4thly, Calcine Brass by itself, by putting Bits of Brass Plates into a Crucible, and luting on the Top, which makes Glass of a Sky-Colour and Sea-Green. 5thly, Calcine Scales of Brass per se, which if well done will be red: Scales of Brass thrice calcin'd, a Sea-Green, an Emerald, a Turchois, and a beautiful Sky, with many other Co-

You must put as much Manganese in one Sort ver: Being well and persectly clarified, take of this Crystal twenty Pounds; Brass of the first, third, or fixth Preparation, fix Ounces; Zaffer prepared, one Ounce and Half; mix these two Powders well, and put to the faid Crystal at three Times; at First it makes the Metal swell very much, therefore mix the Glass with the long Squares; then let it settle that the Colour may be incorporated for three Hours, then mix again. with the long Square, and take a Proof thereof; put in rather too little, than too much of the Colour, for then it may be easily heightened; at the End of twenty-four Hours, after it has had the due Colour, it may be wrought, mixing it first well from the Bottom of the Pot, that the Colour, may be equally mix'd and spread through all the Mettal, and united with it, otherwise it settles to the Bottom, and the Metal at Top becomes clear. At Moran they take half Crystal Fritt, and half Pot-Ash Fritt, and proceed as before, whence arises a fair Sea-Green, but the Former is fairer.

For a Sky-Colour, or Sea-Green: Take Fritt, made of the best Pot-Athes, which purifie from its Sandiver; and to twenty Pounds thereof add Brass, of the fourth Preparation, fix Ounces, and put it in at three Times, as aforesaid. At the End of two Hours re-mix the Metal, and make a Proof, being well colour'd, leave it so for twenty four Hours, so will you have an excellent Sky Colour, varied with other Colours, then

work it.

Another Sea-Green yet more excellent, is thus made: Take Caput Mortuum of the Vitriol of Venus, made without Corrolives, expose it to the Air for some Days, and draw from it, without any Artifice, a pale, green Colour, which being pouder'd, to fix Ounces of it add Zaffer prepar'd one Ounce and Half; Crystal Fritt purified, as before, twenbecome of a Ruffet Colour, and will make ty Pounds, work as in the first Green, so will you have the most beautiful Colour of the Three.

To make a Gold Yellow in Glass, or a To tinge Glass of a Sea Green; take Cry- Kind of Amber Colour: Take Crystal Frite stal Fritt, put it in a Pot, without any Man- two Parts, pure Pot-Ashes Fritt one Part, ganele added; for tho' this makes the Me- both made of Tarfo, which is much better tal clear as to Cryftal, yet it gives a Quali- than Sand, but if of natural Cryftal it is ty in the Glass which leaves the Colour black, yet better; mix these well together, of which

take

and fearfed fine, Manganese prepar'd, of each three Ounces; mix these Powders well work it in time, otherwise it will fade atogether first, then with the Fritts, put them in the Furnace, and let them Rand four Days on an ordinary Fire, because they rise much. When the Metal is purified and well colour'd, which is at the End of four Days commonly, it will be very fair and beautiful, and is then to be wrought into Vessels, Ec. This Colour you may make deeper or lighter, by adding, or diminishing the Powders or Fritts. If you would have it yet fairer, and more beautiful, you must take all Crystal Fritt: Moreover, another thing is to be obferv'd, you must put the Powder, at several

then it colours not. Pieces of broken Glass of many Colours, grind them fmall, and put to them Powder made of Zaffer prepar'd, two Parts; Manganase prepar'd, one Part; this Glass, purified, will be a most admirable Black, shining like Velvet, and will serve for Tables, &c. Another brighter Black: Take Fritts of Crystal and Pot-Ashes, of each ten Pounds; Calx of Lead and Tin two Pounds; mix all together, fet them in a Pot in the Furnace, well heated; and when the Metal is pure, add fix Ounces of Powder made of Steel, well calcin'd; Scales of Iron, finely pwder'd, of each equal Parts; let them boil twelve Hours, now and then mixing the Metal, then work it. Another Black, yet clearer: Take of the best Pot-Ash Fritt twenty Pounds, Manganese prepar'd, one Pound and a Quarter, Tartar in fine Powder, fix Pounds; mix them, and put them into the Furnace leisurely; let the Metal purifie, which will be at the End of four Days; mix again well, then cast it into fair Water, and it will be a Black beyond any of the For-

To make a fair Milk-white, call'd Lattimo; Take Crystal Fritt, twenty Pounds; calcin'd Lead and Tin, three Pounds and a Half; Manganese prepar'd, one Ounce; mix all together, and put them into a Pot heated, let them stand twelve Hours, that the Materials may be melted, and at the End of eight Hours you may work it. It is a fair White, and to make a Peach Colour of it, add a fuf-

take twenty Pounds; of Tartar well beaten, ficient Quantity of Manganele prepar'd, and it will be a Peach Colour, but you must gain.

To make a deep Red; Take Crystal Fritt, twenty Pounds; Tin calcin'd, two Pounds; broken Pieces of white Glass, one Pound; mix these well together, put them in a Pot to run and purific them; being melted, add leifurely, one Ounce of this Mixture; Steel calcin'd and ground, Scales of Iron finely ground, of each alike; mix them well together, and in about five Hours it will be perfected: Too much of the Powder makes the Metal black and opacous, whereas it ought to be transparent; if it be too black Times, into the Fritt, not into the Metal, for or deep, put in of the fourth Preparation of Brass, about an Ounce, and mix them many To make a black Colour in Glass: Take times, and in about three or four Repetitions it will become as red as Blood: Make seve-Tryals, and when you find it right and good, work it speedily, otherwise it will lose its Colour, and become black; you must also leave the Mouth of the Pot open, else the Colour will be loft. Let it not stand above ten Hours in the Furnace, and fuffer it not to cool, if possible: If you find the Colour fades, put in some of the Steel and Iron scale Powder aforesaid, and it will restone it again; 'tis a nice Colour, therefore speedily to be wrought.

For a transparent Red in Glass, like Blood; Take common white Glass, twenty Pounds, Glass of Lead, twelve Pounds, put them into a Pot glaz'd with white Glass; when the Glass is boil'd and refin'd, add Copper calcin'd to Redness, as much as you please; let them incorporate, mixing well the Glass, then add so much Tartar in Powder, as may make the Glass Blood-red: If the Colour be too pale, add more of the calcin'd Copper and Tartar, till the Colour is exact. Another transparent Red: Dissolve Gold in Aqua Regis, many Times, pouring the Water upon it five or fix Times; then put this Powder of Gold in earthen Pans, to calcine in the Furnace, till it becomes a red Powder, which will be in about forty Days; add this Powder by little, in sufficient Quantities, to fine Crystal Glass, which has been often cast into Water, and it will give the transparent Red a Ruby Colour.

To make Glass of Lead: Take of the them well mix'd into the Furnace, let them Best red Lead what Quantity you please, suppose fifreen Pounds; Crystal Fritt, or common white Fritt, twelve Pounds; mix them as well as may be, and put them into a Crueible with a strong Bottom, which put into two other Crucibles of like Strength, one in the Third you will find the Glass; or thus; Take Minium, fiftteen Pounds, Salt of Pot-Ashes, eight Pounds, Sand the same Quantity; mix and put them into Crucibles as before, for fear of breaking, and make a Fire of Suppression, so will you have very good Glass of Lead. To work the said Glass of Lead: Before you take it, upon the hollow Iron Pipe, let it be a little rais'd in the Pot, then take it out, and let it cool a little, and so work it on the Marble, being clean. At first let the Marble be well wetted with cold Water, otherwise the Glass will scale it, and be its felf also discolour'd, incorporating the Scales into it felf, and continually wet the Marble, whilst you work this Glass, otherwise it will lose all its Fairness and Beauty; and do this as often as you take the Metal out of the Pot. This Kind of Glass is so tender and brittle, that if it be not cool'd a little in the Furnace, before it is wrought into drinking Glasses, Cups, or other Vessels, and taken a little at a Time, and held on the Irons, and the Marble con-

thrice calcin'd, fix Ounces; Crocus Martis, has of late Years receiv'd fuch vast Improve made with Vinegar, forty eight Grains; put ment.

stand twelve Hours, in which Time it will be clear, mix them and make a Proof; if it be greenish, add a little more Crocus Martis, till it becomes of a most fair Gold Colour.

A transparent Red in Glass, is made thus: Take impalpable Powder of the best Mangawithin another, and then put them into a nefe, refind Nitre, of each equal Parts, cal-Fire of Suppression; the Lead will pass cine and reverberate twenty four Hours; thorow the first and second Crucible, and then wash away the Salt, with fair warm Water, and dry the Powder, which will be of a red Colour; add to it its equal Weight of Sal Armoniack, grind them together on a Porphyry, with Spirit of Vinegar; then in a Retort, with a large Body, and long Neck, fublime in Sand for twelve Hours; break the Glass, and take what is sublim'd to the Neck and Body of the Retort, and mix it with what remains at Bottom, adding as much fresh Sal Armoniack as is wanted in the Weight of the first Sublimation; grind as before on a Porphyry, with Spirit of Vinegar, and Sublime also in the same Manner; repeat this Work fo long, till the Manganese remains all at the Bottom, fufible.

A most excellent Blue to colour Glass: Disolve Copper in Aqua fortis, made with Nitre and Hungarian, or Roman Vitriol, which sharpens the Aqua fortis, and yields some Particles of Copper to it, then precipitate it with Spelter or Zink, and this has fometimes been done with the Refiner's double Water impregnated with Copper: by this Means you shall have a most incompa-To make a Gold Yellow in Glass, of Lead: Take Cryftal Fritt, calcin'd Lead, colour Glass, among which I thought these or Minium, of each fixteen Pounds; mix few might not be unacceptable, to give the and fearse them well, add to them Brass, Curious a little Insight into this Art, which

BOOK the Sixth.

Of FLOWERS.

1. Of Schenanth, or Camel's Hay.

HIS Schananth is the Flower of a small Plant, or more properly speaking, a sweet Rush, that grows plentifully in Arabia Felix, and at the Foot of Mount Libanus, from whence it is brought to us by the Way of Marseilles. This Plant is about a Foot high, the Root being knotty and very little, furnish'd with small, hard, long, white Filaments, and from each Root comes feveral hard Stalks, of the Size, Figure and Colour of a Barley-Straw, after which arise little tufted Flowers all on the Tops of the Stalks, the Bottoms of which are of a Carnation Colour; fo that when this Rush is in Flower, it is a very fine Plant to look upon; and as this Flower is agreeable to the Eye, so it is to the Palate, having a warm, biting, and aromatick Taste.

We have brought from Marseilles, the Flower, and the Rush, separate from one another, to wit, the Rush in little Bundles, and the Flower just in the Manner as it is gather'd; fometimes clean and neat, and other sometimes nasty and dirty; which is the Reason why such Apothecaries, as are curious in their Druggs, clean and wipe every Flower with a Napkin, which is a troublefome Piece of Work. Chuse such as are the Velvet Red, which are brought from newest, and approaching nearest the scarlet Provins, a little Town, about eighteen Colour that you can get; and tho' they are Leagues from Paris. These Roses come in

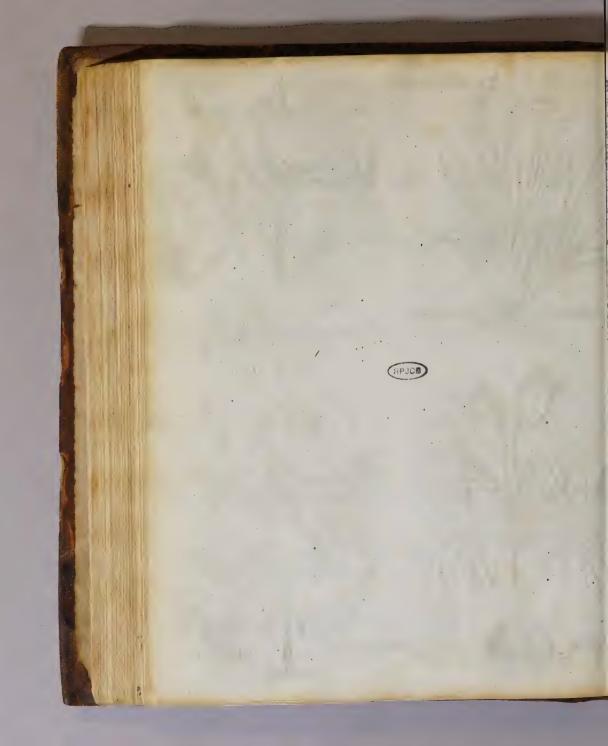
absolutely requir'd for the Making of the Great Treacle.

Fænum Camelorum, Juncus Odoratus, Schananthos, Schananth. The Lemers. fragrant Rush, or Camel's Hay, is a Kind of Reed or Grass, which grows plentifully in Arabia Felix, at the Foot of Mount Libanus, where it ferves the People for Forage, and Litter for their Camels: The Stalk is about a Foot high, divided into feveral hard Stems, of the Size, Fi-gure and Colour of a Barley-Straw, being much smaller towards the Top; the Leaves are about half a Foot long, narrow, rough, pointed, of a Pale, green Colour; the Flowers growing on the Tops, rang'd in double Order, small, hairy, of a red Carnation Colour, and beautiful to the Eye. The Root is small, hard, dry, knotty, adorn'd with long, white Filaments; all the Plant, and particularly the Flower is of a strong Smell and biting Taste, pungent and very aromatick, being prefer'd to all the Rest for its medicinal Use, to which Purpose it is incifive, attenuating, deterfive, refifts Malignity, is an excellent Vulnerary, provokes Urine, and removes Obstructions.

2. Of Provins Roses.

HE Roses, call'd Provins Rofes, are Flowers of a deep Pomet. of no confiderable Use in Physick, they are such great Quantities from that Place, that





it must be allow'd that the Ground there is adding Spirit of Vitriol, or other Acids to absolutely most proper for their Culture, and peculiarly adapted to the Raifing thefe Kind of Roses, because in Beauty and Goodnels; they surpals all that come from other Parts; and that which contributes to their Excellency is, that the Inhabitants thereabout are perfectly skill'd in the drying of them, which makes them keep confiderably longer than others, and preserves both their Colour and Smell: We bring now from Provins, two Sorts, the Larger and the Smaller, the Goodness of either of which depends on their Colour, Smell, Equality, or Degree of Dryness.

Those who make it their Business to deal in Provins Roses, preserve them in such dry Places, that no Air can enter in, and so close press'd or squeez'd, that they may retain their Beauty a Year, or eighteen Months; but about that Time they must take Care to bring them out, least they lose their Colour, and Worms breed in them: Some put them in old Iron, to hinder the Worms from destroying

them.

These Provins Roles are what are most efteem'd of any Flowers in the whole World, because they are aftringent and cordial, strengthen the Nerves, and other weak Parts of the Body; are of confiderable Use in Physick, and enter several Compositions of Value : But fince, of late Years, these Provins Roses were dear, several Druggists and Apothecaries, contented themselves with the common red Roses that are cultivated about Paris and other Parts, fince which Time there Roses as formerly: Nevertheless, those who have made use of the other Sort, have found, which, they will not keep so long, notwithstanding all their Pains to preserve them.

The true Provins Roles are so esteem'd in the Indies, that sometimes they will sell for more than their Weight in Gold; but a great the World; there are two Kinds Quantity of what we fell from these Roses, is now made into Liquid and dry Conferves, and sometimes Syrups, which are often made Rosa; it is a Shurb which bears hard, woody in other Places, with other Kind of Roses; Branches, usually beset with strong, sharp therefore you must take Care in the Choice Thorns; the Leaves are oblong, indented of these Things, to deal with honest People, on their Sides, rough in touching, hanging for fear they make their Conserves and Sy-five or seven on the same Stalk: The Flower

'em: The liquid Conserve is us'd to strengthen the Stomach, and the dry'd tostop Catarrhs, Rheums, &c. and also against Gripes and Belly-ach. The Syrup has the fame Virtues with the Conferves: There is likewise a Conserve made of the white Roses, but it is of little Value. We make besides, another liquid Conserve, or Honey of Roles, which is made with the fresh Juice of the Provins Rose and Honey boil'd together.

It is of these Roses we make the best Rose-Water in the World, but that depends entirely on the Honesty of the Distiller, whether he will make it all of the pure Rose, or by the Addition of a great deal of Water; and most commonly it is made, as I hinted before, of the Rose-Wood: The Use of this Water is so well known, I need not wast Time to relate to you the great Consumption that is made, both by the Perfumers and the Apothecaries, and the large Quantities daily us'd by private Families, upon all Occasions, especially in Diseases of the Eves, &c. Befides the Water, there is a fragrant and inflammable Spirit made of Roses, which is very proper to refresh and exhilarate the Spirits, as well as to strengthen the Stomach; but the Dearness of this Spirit, or rather essential Oil, and the Scarceness thereof, is the Reason why we sell but very small Quantities of it. Some Authors say, that the Roses which remain in the Alembick, or Still, after Distillation, and which is found like a Cake, in the Bottom, being dry'd in has not been that Consumption for these the Sun, is that which we call Rose-Bread; but a Decoction of the Buds being so much better, it is needless to say any thing further that they are not equal to the true Provins of it; and the little Use, as well as Virtue, Roses, either in Beauty or Virtue; besides there can be in the Salt made from the Rose, prevents me entirely from proceeding any further on this Head.

Rosa, in French and English, a Rose, is a Flower known throw Lemery.

of it, one cultivated, and the other wild: The Rose-Bush is likewise call'd in Latin rups, when old, of a fresh, lively Red, by is compos'd of several, large, beautiful, frawhich becomes afterwards an oval Fruit of the Figure of an Olive, whose Bark or Covering is a little fleshy; it encloses, or contains angular, hairy, whitish Seeds; the Roots are long, hard and woody; this Shrub, cultivated, or uncultivated, grows in the Hedges.

The cultivated Rofe is diftinguish'd into feveral Kinds; those which are us'd in Phyfick, are the Pale, or Carnation-Roles; the Musk, or Damask-Rofes, the common, white and red Roses: The pale Roses, call'd in Latin, Rose pallide, seu Rose incarnate, are fine and large, of a pleafant red, or flesh Colour, very sweet to the Smell, and that spread their Leaves wide; chuse such of these as are the most fingle, and least furnish'd with Leaves, because the volatile Parts are less diffus'd, and their Smell and Virtue is the greater: They afford a great deal of exalted Oil, and volatile, effential Salt; are purgative, attenuate, and discharge a Mucus from the Head, purifie the Blood, and purge, chiefly, the bilious and serous Humours.

The Musk Roses, call'd in Latin Rosa Moschatæ & Damascena, are the small, single. white Roses, which blow not till Autumn; they have a Musk Smell, very sweet and agreeable; the Best and most efficacious, are those that grow in the hot Countries, as Languedoc and Provence; they yield great Plenty of exalted Oil, and volatile Salt: Three or four of these Musk Roses being bruis'd in a Conserved, or Insusion, purge briskly, so that sometimes they occasion Blood; those of Paris do not work fo ftrong, but are more

purgative than the pale Roses.

The common, white Roses, call'd Rose Sativa Alba, seu Rosa Alba vulgares majores, are large, white and fragrant, a little laxative and deterfive, but are not us'd otherwise than in Distillations; they contain a great deal of Phlegm, exalted Oil, and but a lit-

tle essential Salt. The red Roses, call'd in Latin, Rosa Rubræ, seu Rose Provinciales, are of a fine, deep, red Colour, but of little Smell; they carry them in Bud, before ever they blow. in order to preserve both their Colour and Vertue, which are destroy'd by the Air, if they are entirely expos'd to it; chuse those that have the highest Colour; those that

grant Leaves, Supported by a Cup or Bud, grow about Provins, are the finest and most valued.

The red Roses are us'd for Conserves, and are likewise dried in great Quantities to keep, because they are imploy'd to many Purposes. being well dried, so as to preserve their deep, red Colour, as well as the Smell they had when fresh; they are astingent, deterfive, proper to strengthen the Stomach, stop Vomiting, Loosness, Homorrhages, being taken inwardly: Outwardly they are us'd for Contusions, Dislocations, Sprains of the Hands or Feet, for Bruises, and to strengthen the Nerves and Joynts: They are applied in Fomentations, Cerats, Oyntments and Plaisters. You ought to observe to gather all your Roses in a Morning, before the Sun has got high, for then the effential Parts are, as it were, concenter'd by the Coolness of the Night; otherwise, when the Sun has been upon them, it exhales a considerable Part from them. The little yellow Bodies which are found in the Middle of the Rose, we call'd Anthera; these strengthen the Gums, and are us'd in Teeth-Powders. The Wild, or Canker-Rose, call'd Cinosbaton, I shall speak of in its proper Place.

2. Of Saffron.

THE Saffron, which the Latins call Crocus, because of its red- Pomet. dish Colour, is the Chive, or Thread, of a Flower of a very beautiful Red at one End, and Yellow at the Other, which is brought from several Parts of France.

That which bears the Saffron is an Onion, or bulbous Root, almost like those of the great Shalot, except that they are a little round, and of a Colour something redder from whence arise Stalks, adorn'd with long, green, narrow Leaves, at the End whereof comes a deadish, blue Flower, is the Middle of which are three little Threads which is what we call Saffron.

The best Saffron, and which is most valu ed, is that of Boistue in Gatinois, where it i husbanded with great Care, being almost at the Riches of the Country. They plant th Onions, or Bulbs of Saffron, in Spring Time, in Rows like the Vines, a Foor dec

but the Herb, or Leaves which remain green all the Winter long, 'till the Beginning of Summer, after which the Leaves fall or dye. The second Year it returns with a gridelin Flower, in the Middle of which there are three, little, reddish Threads, which is the Saffron; when it is ready to be gathered, which is in September and October, they gather it before the Sun rifes, and then they retire with what they have got; and after it is clean'd they lay it upon Hurdles, or bake Stones, under which is a little Fire to dry it: The next Day they return to gather fuch as is sprung afresh since the other was got; for it is a wonderful Thing that these Bulbs recover again in four and twenty Hours, and continue several Days to be gather'd and dry'd, 'till the Roots will yield

There grows in France several other Sorts of Saffron, as that of Orange, Toulouse, Angouleme, of Menille in Normandy; but the Last is the worst of All, and none of the other Three are so fine as the true Gatinois, for which Reason it is prefer'd before all the Rest: and to have the Quality or Vertue required in it the Chives, Threads or Hairs. which are call'd the Saffron, must be of a beautiful Colour, long and large, well tufted. of a fine Red, good Smell, with the fewest yellow Threads, and as dry as is possible.

Saffron is much us'd in Medicine, being one of the best Cordials we have: It serves for several Uses, because of its yellow Dye. The Germans, Dutch and English, are such Admirers of the Gatinois Saffron, that they transport great Quantities of it every Year, in Times of Peace, into their own Countries. - [Here we find our Author's Love for his own Country, or Ignorance of the Goodness of English Saffron, which is preferable to any other in the World besides, has led him into a palpable Mistake.]

As there is a great deal of Saffron-Powder old, so it is generally a Cheat upon honest People, that being almost only sold in Powder, which has been us'd before-hand by the Druggist, or Apothecary, to make Tinctures, pirits, or the like, with. We have Saffron brought from Spain that is good for little or othing; for besides the Cheat that may be mpos'd upon us by their Practice, they

in the Earth: The first Year it brings nothing spoil the Saffron entirely, thro' their Ignorance, which makes them believe that the Saffron will not keep without it be put in Oil. The Ancients made Pastilles with Saffron, Myrrh, Roses, Almonds, Gum-Arabick and Wine; formerly they were brought from Syria and us'd for fore Eyes, and to provoke Urine: This Paste, or Trochy, was call'd Crocomagma, and by us Pastilles, or Saffron Troches; but this Remedy is little known, and of less Use at present. There is a Salt and Extract made from Saffron, but the Dearnels of 'em is the Reason there are none made.

4. Of Bastard-Saffron.

Aftard-Saffron is a very common Plant. which grows about two Foot high, furnish'd with Leaves that are rough, pointed longish, green and slash'd; at the End of each Branch arises a husky Head, of the Bignels of one's Thumb End, and of a white Colour: From this Head come several red and yellow Filaments, or Threads, which is what we call German-Saffron, Bastard-Saffron, or Flowers of Carthamum: But as they cannot propagate this at Paris, but with great Trouble, we have it brought from Alface, and both Sides the Rhine, where they cultivate it carefully. It grows plentifully in Provence, especially on the Side of Selon, and other Places.

This Saffron is in great Vogue among the Feather-Sellers, and for making Spanish Red, but without any Use in Physick, which is quite the Reverse of the Other that is so useful in Medicine. As for this Saffron, which yields a Grain or Seed, the Apothecaries use it, after having cleans'd it well in the Composition of their Tablets of Diacarthamum, which this is the Basis of: Upon this Account they bear the Name: Chuse such Seed as is heavy, well fed, clean, new and dry as can be got, and fee that it be not mix'd with Melon, or Gourd-Seed; to distinguish betwixt which, know that the true Carthamum is round at one End, and pointed at the Other; besides that, it, is never so white as the Melon-Seed.

5. Of Safranum, or the less Baftard-Saffron.

THERE is another Baftard-Saffron; brought from the Levant, about Alexandria, &c. which is in little Threads, or Chives, extreamly fine and fmall, curl'd and reddish.

This Saffron is also a kind of Carebamum, which differs not from that afore, but only as it is much less: We chuse this Flower of the highest Colour, and finest Red, and likewise as fresh as we can meet with: The Use of it is for the Dyers about Lyons and Tours, where they confume the greatest Share to make their Colours fine, as the bright Spanish

Carnation, and the like.

Crocus, or Crocus Sativus, according to Tournefort and Baubinus, bears several long Leaves, very narrow and furrow'd; it springs about the End of August, or Beginning of September, with a low Stalk, or rather Foot, which supports a fingle Flower, fomething refembling that of the Colchicum, or dispos'd like the Flower-de-Lis, but much less, being divided into fix Parts, of a blue Colour, mix'd with Red and Purple; in the Middle of which Flower and Smell, which when gather'd and dry'd is the Saffron.

Chefnut, and fometimes bigger, fleshy, sweet to the Taste, and cover'd with white, or affi-colour'd Tunicles or Coats, supplied by 'tis fasten'd to the Ground. They cultivate this Plant in feveral Parts of France, as observ'd by Pomet,] but the Best is that of Gatinois, and the Worst from Normandy: Aperitive, us'd fometimes as a Restorative in more contrary to Sugar, which shows the Er-

our Food, and in Collyries, to preserve the Eyes in the small Pox; it enters the Composition of some Plaisters, particularly Oxycroceum, but is chiefly us'd internally.

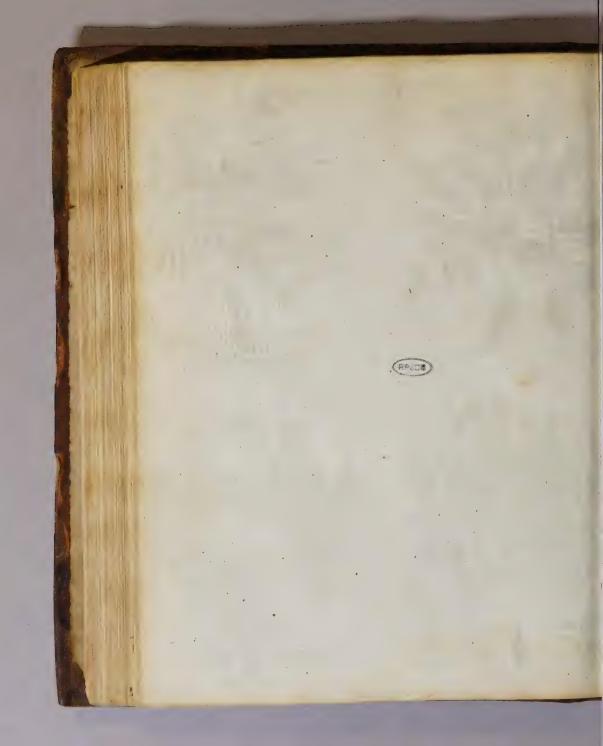
6. Balaustians, or the wild Pomegranate.

HE Balaustians are Flowers of the wild Pomegranate, Pomet. which are brought from feveral Parts of the Levant: We fell two Sorts of Balaustians, namely, the Fine and the Common; we mean by the Fine, the Husks, together with their Flowers, and the Common have nothing but the Husk. The Balaustians have no extraordinary Use in Medicine, only as they are powerful Aftringents; however make Choice of fuch as are fresh, well supplied with Flowers of a deep Colour, in English, Saffron, is a Plant which that is a fine Velvet Red, as little mix'd with Chaff and Dirt as possible; the common Sort are not worth Regard, being in a Manner wholly useless.

As to the Domestick Pomegranate, we never sell it with the Flowers, because they will not keep like the Wild; but instead of that, we have Plenty of 'em brought from Provence and Languedoc, as a Fruit that is very agreeable to eat, as well as useful in rife three small Threads, in the Nature of Physick, the Juice serving to make Sya Tuft, bur divided, and of a fine Colour rup with: We fell more of the Rind of the Pomegranate, as being most astringent; but take Care that it be well dry'd, and do The Root of it is a Bulb as large as a not finell musty: For the most Part of them, who fell Pomegranate Bark, fell nothing but fuch as have been dry'd whole, without emptying; and when they are dry'd, and come externally, with a great many Fibres, where- to be us'd, they have such an ugly Taste, that they are rather fit to make one fick, than relieve him.

We fell a dry'd Conferve of Pomegranate, which is nothing else but Sugar diffoly'd in Chuse your Saffron new and fresh, that is the Juice, which gives it a red Colour, with well dry'd and oily; but take Care that be the Addition of a little Cocheneal, Creme of not artificial, by keeping it in oily Skins, or Tartar and Alum. This Conserve is difficult Bladders, as is us'd by some; let it be of a to make, because, if the Confectioner knows red Colour, with as little Yellow among it as not how to work the Conserve, he will never may be: It abounds with an exalted Oil, be able to gain his Point, because of the small mix'd with volatile Salt; and is Cordial, Quantity of Alum which he is oblig'd to mix Pectoral, Anodine, Historick, Alexiterial, with it, and there is nothing in the World





affert, is so true, that four Ounces of Alum of Sugar from incorporating. But to come to our Conserve, only a little Alum must be added to the Sugar and Juice of the Pomemust dry in the Air together: For, in a Flegm, Oil, and essential or acid Salt. Word, Alum is to Sugar as Oil to Ink.

Lemery, nate, is a Shrub, whereof there are two Kinds, One cultivated or domestick, and the Other wild. The First is call'd, by Tournefort, &c. Punica que malum Granatum fert, that which produces the Pomegranate; by Parkinfon and C. Baubinus, it is call'd Malus Punica (ativa: The Branches are small, angular, armed with Thorns; the Bark is reddiff, the Leaves are small, and resemble those of the Myrtle, but less pointed, hanging by reddift Stalks, of a strong Smell, when they are crush'd or bruised; the Flower is large, beautiful and red, inclining to Purple, compos'd of several Leaves, like a Rose in the Hollow of a Cup, representing a little Basket of Flowers; the Cup is oblong, hard, purplish, large at the Top, having, in some Measure, the Figure of a Bell; they call it Cytinus; at the Bottom comes a Fruit after the Flower is gone, which grows into a large, round, Apple, adorn'd with a Crown, form'd by the Top of the Cup; the Bark is as hard as Leather, of a purple Hue, dark without, and yellow within: This Apple is call'd, in Latin, Malum punicum, seu Granatum, the Pomegranate in English: It is divided internally into several Partitions full of Seed, heap'd one upon another, being with a very pleasant Juice, each of which contain, in the Middle of 'em, an oblong Grain, Yellow, and sometimes very irregularly form'd.

There are three Sorts of Pomegranates which differ in Taste; the one Sort are eager, or sharp, the Other Iweer, and some are betwixt both, manifestly neither the One nor the Other prevailing, call'd Vinous: These Pomegranates are improv'd in our Gardens, especially in all the warm Countries, as Spain, Italy, France, &c.

ror of those, who say that they mix Alum the wild Pomegranate: This is a Shrub like with Sugar to refine it; and what we here the Former, but more rough and thorny: They gather the Flowers when in their is capable of hindring two thousand Weight Prime, and are what they call Balaustia, or Balaustians; these are dry'd to keep, which the Merchant brings from the Levant. The wild Pomegranate grows only in the hot granate, while moist, and afterwards they Countries, contains in it a good deal of

The Balaustians ought to be chose new, Punica Malus, or the Pomegra- large, fair, well blown, of a deep Colour, or reddish Purple, affording Plenty of volatile Salt and effential Oil: They are proper for Bloody-Fluxes, Dyarrhaa, Ruptures, to ftop a Gonorrhea, Whites in Women, and spitting of Blood. The Bark is us'd for the tame Intentions.

The Juice of the Pomegranate, which is tharp or acid, is most valued in Physick, as proper to fortifie the Stomach, stop Vomiting and Loosness, precipitate bile and choler: The Seed is likewise aftringent, and us'd in Injections. There is found upon the Rocks in the Sea a Stone, in Shape of an Apple, which both in Figure and Colour refembles this, and therefore is call'd a Sea-Pomegranate.

7. Of Arabian Stæchas.

THE Stachas, very improperly call'd the Arabian Stochas, being that which we fell, is brought to us from no other Part than Provence and Languedoc, where it grows plentifully. It is the Flower of a Plant which has very narrow, green Leaves; this Flower comes in the Nature and Figure of Spike, of the Size of one's Finger End, from whence fleshy, of a fine red Colour, abounding arise little blue Flowers, almost like a Violet.

The greatest Part of the Steechas we sell, comes from Marfeilles, by Reason of the Plenty they have in the Isles of Hyeres, for which Reason it went formerly by that Name. The little Use this Flower is of, in Physick, makes ir that we fell but small Quantities, it having little or no Tafte, Smell or Vir-

There is another Stachas we sell besides, whose Flowers are of a Citron Colour, which has occasion'd some to give it the The second Sort is call'd Punica Sylvestris, Name of the yellow Amaranthus; but the General History of DRUGGS.

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Encouragement to fay any thing further, but that it is a very common Plant in Provence and Languedoc. The Arabian Steechas grows so large and thick in Spain, that it is found as big as one's little Finger, and the Spikes or Heads fometimes white: The chief Use of it is for Treacle, wherein there needs no farther Direction but to chuse it fresh, good, clean and near.

Stechas Purpurea, according to Lemery. Baubinus and Tournefort, is a beautiful Plant, which bears in the Nature of a Shrub, feveral Stalks, or Rods, of a Foot and a Half, or two Foot high, woody, and divided into feveral Branches: The Leaves are like those of Lavender, but much less, narrower and whiter; the Tops support, or carry Ears, or husky Heads that are oblong, mounted each on a Cluster of Leaves, and adorn'd with little Flowers, purple or bluish, dispos'd in Rows the Length of the Head: There succeeds from each of the Flowers, four Seeds, that are almost round, blackish, and enclos'd in a Covering, which ferves as a Cup to the Flower; the Roots are woody: All the Plant has an aromatick Smell, with a Tafte fomething acrid and bitter. It grows in great Plenty in Languedoc, Provence, and the Isles of Hyeres, call'd by the Ancients the Stachas Islands. It delights in dry and fandy Ground, and is brought dry to the Shops where the Flowers, because the ting.

It is call'd Arabian Stachas, because the ting.

The Use of this Oil, which is call'd the It is attenuating, deterfive, aperitive, cephalick, histerick, strengthens and comforts the Brain, provokes Urine and the Terms, refifts Poilon, and expels Melancholy.

Some tay this Plant grows near the Rhine, that it has a pretty large Flower, much of the Shape of Hops, of a fragrant Smell; that when growing they are yellow and blueish, but when dried, of a brown Colour, and in Knobs: Those which are the largest, best scented, and least broken are the best : These Flowers are diaphoretick and vulnerary, us'd chiefly in Diseases of the Head and Nerves, and by their Fume they dry up Defluxions: They may be us'd in Powder, from a Dram to two Drams; a Lixivium, or Lye of the Ashes in fair Water, will kill Bice and Nitts in the Head. The Spirit of

little Use that is made of it, gives me no this Flower it reckon'd excellent against all cold Diseases of the Womb, together with Wind, Gripes and Convulsions; and exceeds Hungary-Water internally or externally: The Syrup of Stechas is given in Coughs, Catarrhs and Barrenness.

8. Of Rosemary:

Rosemary is a Plant so common, it wou'd be a needless Thing to Pomes. amuse any Body with a Description of it; but the confiderable Sale there is of what is produc'd from it, engages me to treat of it: Therefore I shall begin with the Oil which is made from Leaves, Flowers, Stalk and all, by Means of a common Alembick, with a reasonable, or sufficient Quantity of Water; by which Means we have a white, clear, penetrating, and fragrant Oil, endowed with a great many excellent Qualities and Virtues; but the Dearnels of this Oil, by reason of the small Quantity that is made, occasions certain People to adulterate it, with mixing a confiderable Part of the Spirit of Wine, well deflegmated, and so they confound Oil of Spike, Lavender, and other Aromatick Oils; tho' it is easie to distinguish Oil of Rosmary, as being white, clear and transparent, which if mix'd, it will not be so pure, tho' it may reto the Shops where the Flowers are only used. tain a sweet Smell, and be very penetra-

Essence, or Quintessence of Rosemary, is not very confiderable in Medicine, but 'tis very much used by the Perfumers, to aromatile their Liquors, Wash-Balls, &c. and some esteem it greatly for the Cure of Wounds, as a very specifick Balsam; which has given Occasion to some Strollers and Mountebanks, to make it a mighty Commodity, and swear that it is true Oil, or Essence of Rosemary, when what they fell for it is nothing but Oil of Turpentine, and Pitch, melted together, and colour'd with Orcanet.

The next Merchandize we fell that comes from Rosemary, is the Queen of Hungary's Water, which has made such a Noise in the World for so many Years together, and is pretended to be a Secret deliver'd by a Hermit to a certain Queen of Hungary. The





great Virtues appropriated to this Water. must be owing to the Spirit of Wine and Rolemary-Flowers, from which two Things it is only made; but there are a thousand Cheats imposed upon the World, by those who pretend to have the true Receipt of making the Right Hungary. Water; and these are the People, generally, that spoil this Medicine, by making it of the worst Materials, and in ordinary course Vessels; as their Manner is to take the whole Plant of Rosemary, infuse it in Aqua Vita, or common Spirits, and so distil it in an Iron Pot, with an Earthen Cap fix'd to it: You have it describ'd at large, and the best Methods of preparing it, by Mr. Verni, Master Apothe-cary of Montpellier, in his Pharmacopeia, or Treatise of distil'd Waters, Page 829; and Mr. Charas in his Chymical Pharmacopæia. Page 632.

The Use of Hungary-Water is so universal, and the pretended Vertues so many, that it wou'd be endless to attempt to enumerate them; besides, there are so many Treatises take Notice thereof, that it wou'd be a

Work altogether needless.

We likewise sell the dry'd Flowers, and Seed and Salt of Rosmary, but little Quantities of these: We have likewise a liquid Conserve of the Flowers; besides which, they bring us from Languedoc and Provence Oil of Spike, which is made of the Flowers, and the small Leaves of a Plant, which the Botanists call Spica, sive Lavendula mas, vel Nardus Italica, aut Pseudo nardus, which fignifies Spike, Male-Lavender, Italian, or Bastard-Nard; and these grow common in Languedoc and Provence, and upon all the Mountains thereabouts.

This Oil of Rolemary is proper for feveral Sorts of People, as Painters, Farriers and others, besides its Use in Physick, wherein it is accounted Cephalick, Neurotick, Cardiack, Stomachick and Uterine; a great Strengthener of any weaken'd Part, especially the Head or Nerves; excellent against Vertigo's, Lethargy, Apoplexy, Epileply, Palfy, Convulsions, Syncope, Fainting Fits, Palpitation of the Heart; a good Specifick to strengthen the Eye-Sight, and open Obstructions of the Optick Nerves, cure a stinking Breath, and relieve in the Spleen

this Oils of Lavender, Marjoram, Thyme, Sage, Mint, and other Aromatick Plants.

Rosmarinus hortensis angustiore folio, according to C. Baubinus and Lemery. Tournefort, or the Garden-Rosma-

ry, with the narrow Leaf: This is a woody Shrub, whose Stalk grows four or five Foot high, and fometimes much more, having feveral long Branches, Ash-colour'd, on which grow, long, narrow Leaves, that are hard and stiff, of a brownish Green withour, and whitish underneath; a little succulent, of a strong Smell, Aromatick, and of a pleasant, agreeable, biting Tafte; the Flowers are fmall, but numerous, mix'd among the Leaves; each of which has a Tail cut at the Top into two Lips, of a pale, blue Colour, inclining to White; of a sweeter Smell than the Leaves; when the Flowers are fall'n, there follows some little Seeds, that are almost round, joyn'd four together, and enclos'd in a Capfula, or Covering, which ferves as a Cup to the Flower. The Roots are small and fibrous. They cultivate this Shrub in Gardens, but it grows without Improvement near Narbonne in Languedoc, and flowers in May and June; the Flower is call'd Anthos, which is as much as to fay the Flower, by Way of Excellence: Both the Leaf, and Flower, is us'd in Medicine, but those of Languedoc are to be valued before any of the more northern Parts of France, because the Heat of the Climate renders the Plant there more spirituous and bitter: It yields a large Quantity of effential Oil, and volatile Salt, besides six'd Salt, which it affords great Plenty of, by burning to Ashes, making a Lye of them, then filtering, and afterwards evaporating in a Sand Furnace to a due Dry-

9. Of Dodder of Thyme.

FPithymum is a Plant like a Bush of Hair, found upon several Simples, as upon Thyme, from whence took the Name of Epithymum, or Thyme-Weed; we fell two Sorts of it, to wit, the Existingmum of Candia, and that of Venice; the First in long Threads, of a brownish Colour, and premy Aremanck Smell. The fee and Jaundice: We fell in our Shops, with cond Sort, on the contrary, is very little and curled.

Epithymum, which our Herbarists fell by the Name of Country Epithymum, but this is good for nothing at all, having neither Smell nor Tafte, which is the very Reverse of the two Former, which you ought to chuse fresh, odoriferous, and the least bruis'd that can be. This Dodder is of some Use in Physick, as entering into several Galenical Compositions.

There is another Dodder, we fell, more of the Nature of the Plant it clings to, we call it Cufcura, Podagra, Angina Lini, Dodder, Withwinde, Gout-Herb, &c. This Plant is the same Thing with the Epithymum, having no Difference; but according to the Plants it climbs upon, it changes its Name: And to prove what I fay, I shall relate what Mr. Tournefort

gave me in Writing.

The Cuscuta, says he, is a Plant of a fingular Kind; it comes from a very small Seed, that produces long Threads or Strings, that are as fine as Hairs, which perish every Year with the Root: If they find any adjacent Plant, upon which they can wind or twift themselves, they catch hold of the Stalks, or Branches, and draw their Nourishment from the Bark of the Plants; it bears several Flowers at equal Distance, gather'd into little Balls: the Flowers are like little Cups, white, tending to a Flesh Colour, membranous, and fill'd with four or five Seeds, small, brown or greenish, as little as Poppy-Seeds.

This Plant grows indifferently on all Sorts of Herbs, and there are above a hundred Plants to which it clings; and it is believ'd that this receives its Substance from those Plants which it furrounds, and likewise partakes of the fame Qualities; fo commonly the Dodder, that grows upon Flax, or Flaxweed, is what we mean by this Cufcuta, as that which grows upon Thyme, is the Epithymum: It corroborates the Parts, opens Obstructions

of the Viscera, and passes by Urine. Epithymum, five Cuscuta Minor, Lemery. is a Kind of Cufcuta, or Dodder, that is stringy, and winds it self

upon any Plant it approaches, being of a reddith, brown Colour, and having a plea-Stalks in it is to be prefer'd: by feeing how

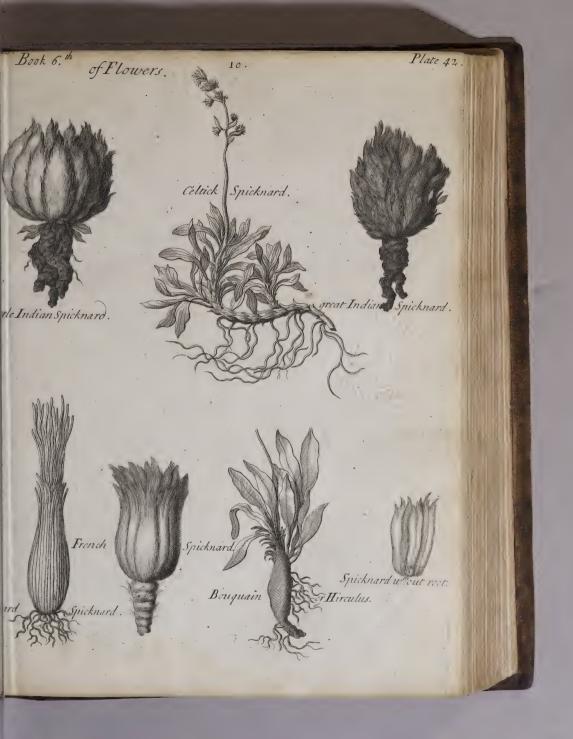
curled, and has a great deal stronger Smell Dodder grows upon Nettles, Hemp, &c. than the other. There is a third Sort of we may apprehend what it is like. It is brought to us out of Turky, Italy, Venice, and other Parts of the Streights; it is reckon'd amongst Catharticks, and said to purge watery Humours, and Melancholy; is aperitive, arthritick; purifies and cleanles the Blood; is good for the Spleen and Hypochondeia, Wind, Rheumatism and Gout, being beat to Powder, or taken in Infusion, in Water, Wine or Whey.

10. Of Spicknard..

Spicknard, or Indian Nard, is a Kind of Ear of the Length and Pomet. Thickness of one's Finger, adorn'd with little brown Hair, or Nap, that is rough, coming from a small Root of the Size of a Quill. They pretend that the Spicknard grows in Tufts or Bushes, and that it raises a Flower from the Ground, upon a slender, long Stalk; but as I never saw one upon a Stem, I have set it down in the Manner as we fell it, according to the Figure engrav'd with the Root, to show that it is not fo fmall and flender as Authors wou'd

make it. We fell three Sorts of Spicknard, namely, the Indian Spicknard, so call'd, because it comes from India, whereof there are two Sorts, viz. the Great and the Small: The Second is the Mountain Spicknard, which is brought from Dauphiny; and the Third is the Celtick Spicknard: The small Indian Spicknard is according as is express'd in the Figure ; of a bitter Taste, and a strong, dilagreeable Smell; and the Large is of the Length and Thickness of one's Finger, and much of the same Quality, except that it is usually browner, and more upon the Red.

As to the Celtick Nard, it is in little, shelly Roots, full of pretty long Fibres, from whence arise little long Leaves, that are narrow at Bottom, and large towards the Middle, and a little sharp at the End; of a yellow Colour, fomething upon the Red; when they are dry'd they are fit for Tranfporting. In the Middle of the Leaves comes a little Stalk, about half a Foot high, at fant, fragrant Smell; that which has fewest the End of which are many small Flowers, of a Gold Colour, shap'd like Stars.





Way of Marseilles or Roilen. The Use of this is only for the great Treacle, where it undergoes a long and difficult Preparation; for they are forc'd to put this, sometime, in a Cellar to make it moift, that this little Root may peel, which is the only Part that is put into the said Composition; one ought to take Care of several little extraneous Plants, which are usually found mix'd with it; as Bastard Spicknard, Hirculus, or the like. Chuse all the Kinds as fresh and fragrant as possible.

Nardus Celtica, or Spica Celtica, is Lemery. a little knotty Root, yellowish and aromatick, being form'd like an Ear, from whence it takes the Name of Spike or Spica; it bears fine, small Fibres, or slender Tails, pretty long, which support small, oblong Leaves, narrow at the Bottom, large or broad in the Middle, and end in a Point of a yellow Colour. There rifes, among the Stalks, a little Stem of about half a Foot high, bearing, on the Top, a good many Flowers in Form of Stars: It grows in the Alps, Tyrol, Liguria, Carinthia, Styria, &cc. That is best which is fresh, sweetfcented, with many small Fibres, full and strong, or not brittle; it is hot and dry, and of the Nature of the Indian Spicknard, but not altogether fo ftrong; it strengthens the Stomach, expels Wind, is good against the Cholick, and provokes Urine; it may be given in Powder, from a Scruple to a Dram, and in Tincture to half an Ounce.

Nardus Indica, or Spica Indica, the Indian Spicknard, is a Kind of Ear, as long and thick as one's Finger, light, and supplied with long Threads, or Hairs, that are reddish, or brown, of a strong, unpleasant Smell: It grows in India, and is brought thence to Alexandria in Egypt; and from thence to Venice, and so hither; and is call'd Spica, because it resembles an Ear of Corn. There is a Bastard Spicknard, which is a Sort of Lavender, a Second Sort of Narbonne, and Thirdly, A Mountain Spicknard like with a long Beard, or Fibres, and a tharp dition, Page 33-

This Spicknard Is brought us in Bunches from Spike, biting, attracting the Tongue, sweetdifferent Parts, but the greatest Plenty comes scented like Cyprus, and keeping its Scent from the Alps, from whence we have it by the long; if it be moift, or whitish, or rough, and without Duft, or Hairs, and Fibres like Wooll, it is naught: It is Hot, Cephalick, Stomachick, and Alexipharmack; attenuates and aftringes, stops Fluxes, yet provokes Urine and the Terms; powerfully expels Wind, and cures the Jaundice; it refifts the Malignity and Poison of the Plague, and all Manner of malign and pestilential Fevers: It is us'd in Powder, which is an Ingredient in Mithridate, Venice-Treacle, and other Antidotes, from half a Dram to a Dram and Half. The simple Oil is call'd Oil of Spike, and there may be an excellent compound Oil made of it, with the Addition of other Spices.

11. Of Bisnague, or Tooth-Pick-Flower.

THE Bisnague, or Visnague, is the Tufts and Taffels of a Plant, Pomet. whereof you have the Figure under that Name, which grows plentifully in Turkey, from whence we have it brought to fell. This Plant is cultivated and brought into feveral Parts of France, but chiefly into the Royal Garden at Paris. Of the whole Plant we fell nothing but the Taffels, because the People of Quality, and others in Imitation, use them as Tooth-Picks; and the rather, because they are of an excellent good Taste: As to your Choice, you need to be no otherwife curious, than in taking such as are whole, the Largest and Fairest you can get.

13. Of Heart's-Ease.

DEfides the Bisnague, we sell a certain Violet Flower which is Pomet, brought us from Provence and Languedick, or from Lyons; call'd to, because of its bluish Colour, and its Retemblance to Violets, when dry'd; upon which Account the Apothecaries use it instead of Mines Violets in feveral of their Compositions, Valerian. When you chuse the Indian Spick- where the true Violets are required, which nard, let it be such as is dry, or a yellowish is an Abuse, as it has been observed by fire Red, or Cinamon Cologi, feed, fineoul., Charas, in his Pharmacopaia, the Second Le-

General History of DRUGGS.

But the Flower, whose Figure is here Reason there are a great Variety of Simples given under this Head, is what the Botanists call Viola Tricolor erecta, Affurgens Tricolor, in English, Pansy or Fancy, Flos Trinstatis; by some Trinity-Flower, and by others Heart's-Ease: It is call'd the Flower of Trinity, from having three Colours; to wit, the Violet, the Blue and the Yellow; which some have thought, tho' erroneously, a proper succedaneum for true Violets; which being fo well known in all Countries, and treated of in every Herbal and Dispensatory, I shall say nothing further of them, either in Relation to the Syrup, Flower, Seed or Comfit, of the March-Violet, but advise every Body to apply themselves to honest People, when they want any of them, that they may furnish them with what is true, natural, and not decay'd.

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There are other Sorts of Flowers fold by us, as red Poppy, Colt's-Foot, St. John's Wort, Centaury, Cat's-Foot, and Lilly of the Valin Paris, as I told you before; for which tioned: Dose 3 Drams in any proper Vehicle.

that we do not keep in our Shops.

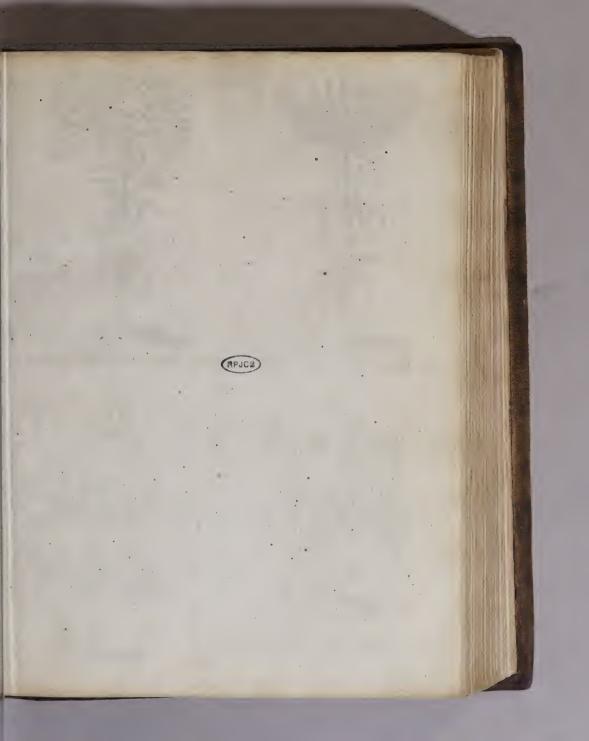
Herba Trinitatis, Viola Tricolor, Dodonwi, Sc. and by others Viola Pentagonea, Jacea major, sive Viola Tricolor, Lemery. sive Trinitatis flos; Pansy, or Pensie in French, and Fancy in English, is a Kind of Violet, or Plant, bearing its Leaves upon creeping Stalks, like those of Ground-Ivy, Blue, Purplish, or White and Yellow, without any Smell, each compos'd of five Leaves; after the Flower is gone, there appears a Pod, or Bag, which contains feveral imall Seeds; the Root is fibrous or ftringy: This Plant is cultivated in our Gardens. flowers most of the Summer, and yields some essential Salt and Oil: It is incisive, vulnerary, deterfive, penetrating and sudorifick : good for Ulcers of the Lungs, Coughs, Obstructions of the Womb and Gall: The Juice taken in White-Wine, &c. is good against Fevers and Inflammations, drunk for a Continuance of three Weeks or a Month: it is said to be a specifick in the Venereal Diley, with several others we are furnish'd with sease: The saline Tincture is much more effrom the Herb Shops, and publick Markets fectual for that and other Purposes aforemen-

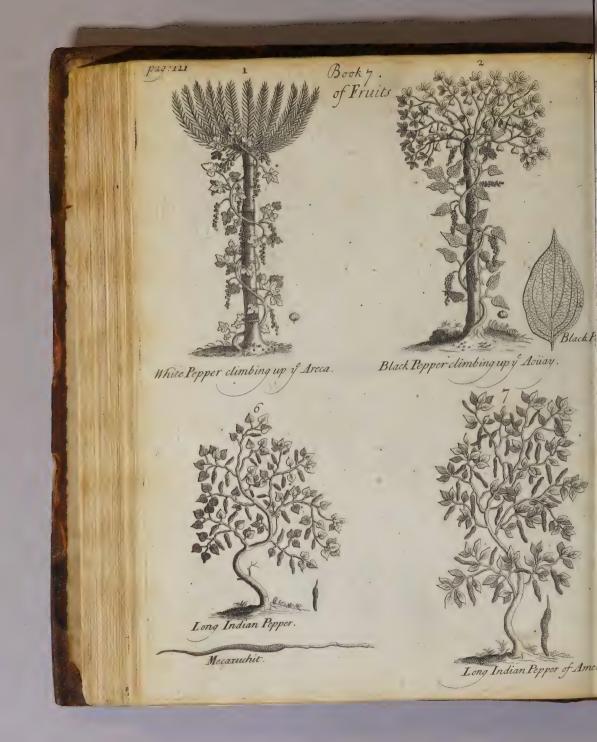
BOOK the Seventh.

Of FRUITS.

ceeds the Flower; and likewise, whatever attends any of them, whether naturally, or as an Excrescence, as Misselto to the Oak, or the like; together with what is produc'd from Fruits, which are commonly distinguish'd into two Sorts, to wit, into such as

N this Chapter I shall take in, under the bear Nuts, and such as bear Stones or Ker-Name of Fruit, whatever, in Herbs, nels. It is pretended that Fruits are com-Plants, Shrubs, or Trees it is, that fuc- pos'd of three effential Parts, namely, the pos'd of three effential Parts, namely, the Skin, or outward Membrane, the Pulp, or fleshy Part, and the Fibres or Rringy Parts. There are Fruits, whose Kernels are cover'd with a Capfula, or Case, that contains the Seed, and others that have none.





r. Of White-Pepper.

Pomet. Climbing Plant, we commonly call a Creeper, whose Leaves are entirely like those of our Currans; after which come small Clusters, as it were adorned with round Seeds, green at first, but when

ripe they are of a greyish Colour.

As the Pepper-Plant cannot support it self, the Inhabitants of those Parts where it grows, plant it at the Root of certain Trees, as the Areca, which is a Sort of Palm-Tree. very fraight and tall; the Cocoa, or other Trees, of the like Nature: But as this Pepper is rarely brought to us, a great many Persons will affirm, it is not the true white Pepper, being nothing more than the Bark of the black Pepper: It is for this Reason I have given you the Figure of it, and will endeavour to prove the white Pepper to be natural from the Places of its Growth, according to what Mr. de Flacourt, Governor in the Isle of Madagascar afferts; who fays, That the true white Pepper grows upon a Creeper, and that the Stalk and Leaves sinell altogether as Pepper; and that there are great Quantities in that Country, where the French have a good Establishment, and lade their Ships, every Year, with a great deal of it; for the Woods, all about, are full of it, so that it is Food for the Turtles and wild Pidgeons. It is ripe in August, September and October; Tho' some Authors, and among the Rest Pifo, in his History of the Indies; and after him Mr. Charas obferves, that there's no fuch thing as white Pepper; it shall not hinder my Belief of it: For it is impossible that they can ever bark black Pepper, so as to make it smooth, and even as we find the white Coriander Pepper that the Dutch bring us. And further, when we break the Pepper, we see the outward Skin, which is an infallible Token, that it had never been broke before; for if it had been bark'd we shou'd easily have discover'd the Wrincles that must have been in the Drying of it; and this is such a Truth, that all the Peppers we find bark'd, or husk'd, and blanch'd in Holland, which is always done with the black Pepper, appear plainly to have a wrinkled or wither'd Skin.

Chuse the true, white Dutch Pepper, the largest, best fed, heaviest, and the least black Seeds amongst it, that you can get; and take Care of such as is blanch'd, or withered, which is foon known by rubbing it in your Hands; for the white, meally Colour will change yellow: Besides that, the Coriander Pepper that is not blanch'd, will appear with little Streaks like Ribs; and when beat to Powder, of a fine Grey, tending to a white Colour: Its Uses are too well known to detain me any longer on that Head. We pound. or reduce to a gross Powder, the white Coriander Pepper, upon which we throw Efsence of Amber-Pepper, or Bergerac, which has no other Use, than to gratify Persons of Quality.

2. Of Black-Pepper.

Black-Pepper is likewise the Fruit of a Creeper that has large, broad Leaves, very fibrous, and supplied with seven Strings, or nervous Ribs, that are very conspicuous, according to the Figure which was given me by Mr. Tournefort. The Dutch and English bring three Sorts of black Pepper, which differ not one from the other, but according to the Places where they grow. The First and Finest is that of Malabar; after that the Pepper of Jamby, which comes the nearest to the Malabar: The third Sort is a meagre, lean, dry Pepper of Bilipatham; and tho' that be the Least of all, it is neverthess most esteem'd by the Mahometans; because, say, they, the smaller the Pepper is, the better Condition it is of; for the smaller Pepper has the large Grain, and it is not so hot as the great Pepper, which is the Reason the Dutch rarely bring any of the little Pepper from India: Besides, they have a better Trade for the large Malabar Pepper, than other Nations, in that they never pay any ready Money, but truck with the Natives for their Commodities which they carry thither, as Quick-Silver, Cinabar, and the like; whereas the English buy theirs with ready Money : after which they are forc'd to exchange with the Dutch, and give them a Bale of Malabar-Pepper, for a Lot of black Pepper, which is ten Bales; which makes it, that the English cannot furnish other foreign Markets with Pepper that is so fine and large as the Dutch do. Chule

Chuse your black Pepper well fed, and little wither'd or wrinkled, heavy, and full of white Grain, but as clean from Dust and Dirt as can be; and take Care of being impos'd upon with the Pepper they us'd for Blanching shell'd or bark'd, as I mention'd before. The black Pepper is us'd as the White, and is likewife of some Advantage in Medicine, because of its Warmth; for which Reason it is imploy'd in some hot Compositions, as Venice-Treacle, and some others; Druggists sometimes sell it, but it is mostly fold by the Grocers. Pepper expells Wind, and cures the Cholick, fo that it is the Basis or Foundation of most of the Gripe-Waters that are made: The Tincture is good for most cold Diseases of the Nerves and Brain; as Palsies, Convulsions, Rheumatisms, Sciaticks, &c. The Chimical Oil, whereof this yields but very little, is an incomparable Remedy, internally or externally, in Weakness of the Parts of Generation of Men or Women, as likewise in Barronness; a few Drops of the Oil, in any proper Liniment, rub'd upon the Perinaum three or four times, will restore a lost Erection.

3. Of Fine Spice.

THE fine Spice is a Mixture of several Aromaticks mix'd to together; and to prevent the Abuse that attends this Composition, I have thought fit to give the Receipt of those Things it ought to contain. Take black Dutch Pepper, five Pounds; dry'd Cloves, one Pound and a Half; Nutmegs the same Quantity; fresh dry'd Ginger two Pounds and Half; Green Anise and Coriander, of each, three Quarters of a Pound; powder them separately, and soft them thro' a fine Sieve; then mix them together, and take Care to keep them elose stopt of Use.

It is here observable, That the Generality of those who make the sour Spices, use instead of Pepper, Pepper-Dust; instead of Cloves, Jamaica-Pepper; instead of Nutmers white Costus; or an uncertain Kind of Bark, that I know not well what to call; but is so like rough Cinamon, that it is impossible to discover the Difference, but that the Taste is altogether foreign, and has

more Likeness to Sassafras: The lesser Galingal and Cloves mix'd together, and those who sell it, call it Cinamon-Wood, clov'd Cinamon, or Clove-Wood, and say, that it is the Bark of the Clove-Tree, which is false; but for my own Particular, I believe that it is the Bark of a Kind of Sassafras.

4. Of Cubebs.

Ubebs are a little Seed, or Berry, fo like the black Pepper, that if it was not for their little Stalk or Tail, and that they are a little Greyish, no Body cou'd find out the Difference betwixt them and Pepper: These grow likewise on a creeping Plant, but the Leaves are longer and narrower; after which come the Fruit in Clusters, each being tied by the Middle, with a little Stalk. The Isle of Fava, Bantam, and other Parts of the Eastern World, produce great Quantities of Cubebs; they are of some Use in Physick, from their pleasant Taste, especially when held in the Mouth without Chewing; likewise of admirable Use to make the Breath sweer, and help Digestion. They are said to be good for barren Women, by taking away the Coldness, Moisture and Slipperiness of the Womb.

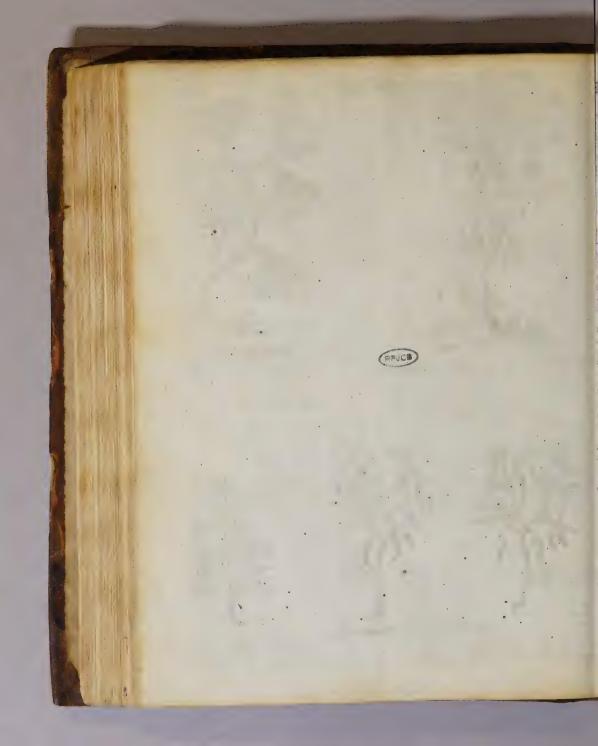
The Best are such as are large, heavy and fresh: Not many Years ago it was disputed what they were; some said they were a Sort of Pepper like the Black; other thought they came from Agnus Castus; and some again said they were the Fruit of Ruscus, or that of Amomum, which were all false Conjectures; for they are the Fruit of a creeping Plant, as I have before described,

and delineated in the Figure.

5. Thevet Pepper.

THE Thevet Pepper is a finall, round Berry, of the Size of white Pepper, reddift as to Colour, and at one End has, as it were, a little Crown; but as this Pepper is of no kind of Use, by Reason of its Scarcity, I shall say nothing surther of it, but only that it has a pleasant, Aromatick Taste. The Tree that bears it, is of the same Figure, as express d in the Plate under the Name. The





The Dutch likewise give the Name of A- or Berry, about a Foot long. According to is both round, and bears the Taste of Clove, it has obtain'd the Name of the little round Clove, to distinguish it from the Clove, or Madagascar Nut, and has the same Vertues as the common Clove.

6. Of Long Pepper.

the black Pepper; except that it climbs not so high, but grows commonly in the Nature of a Shrub, and supports it self upon its own Stem, and has smaller, and much greener Leaves, and the Stalks, or Tails, are not so

The East-India long Pepper, which is that we usually sell, is a Berry of the Thickness and Length of a Child's Finger; that is, properly speaking, nothing else but a Collection of little Seeds together, something red without, and blackish within. In each of these Seeds, or Kernels, is a Sort of white Powder, of a hot biting Tafte; and they flick so elose together, as not to be separated but by pounding; and this Mass forms a Berry of the Size and Length aforesaid.

The Dutch and English bring Plenty of this Pepper from India; which to have its defired Effects ought to be fresh, well fed, weighty, hard to break, found, and as clear as can be from Dust and Dirt: It is of some Use in Physick, especially the Great Treacle, and some other Galenical Compositions; and is recommended, when bruis'd into a gross Powder, to boil in any Food, and given to Nurses to encrease and give a fresh Spring to their Milk: It certainly warms a cold Stomach, raises the Appetite, consumes crude and moist Humours, expells Wind, provokes Urine, and cures the biting of Serpents, and other venomous Creatures.

7. Of Long American Pepper.

Here is found in the Islands of America a Shrub, which has Leaves almost like

momum to this Pepper, as well because of its the Relation of Nicholas Monard, this Berry Resemblance to Jamaica-Pepper, as because is compos'd of several little Grains, or Seeds, it has almost the same Taste; and because it that together make a long Spike, or Pod, and are contiguous one to the other; of the same Shape as the long Pepper. The fame Monk fays, that the Fruit, when fresh and young, is Green; but when the Sun has ripen'd it Black, and that it has more Acrimony than the long East-India

This long American-Pepper, is what the L Ong Pepper is the Fruit or Berry of a Americans call Mecazuchit, which serves Plant altogether like that which bears them to put into Chocolate. 'Tis likely the Author of the Book of Tea, Coffee and Chocolate, never defign'd to speak of this Fruit, for he has taken no Notice of it.

This long Pepper, according to its Appearance, is that which the Reverend Father Plumier intends, by the Name of Saurus Botryitis major Arborescens folijs Plantagineis; which fignifies, the great Lizard's Tail, growing like a Tree with Plantane-Leaves. The Reverend Father observes, that this long Pepper is a Berry, or rather a Cluster, of half a Footlong, and from four to five Lines thick at the Bottom, but grows narrower at the End; and confifting of a great many Grains, or Seed, of the Size almost of Mustard-Seed, which are Black at first, and Black and foft when ripe, of a hot biring Tafte. The same Father says, that this Pepper is much us'd by the Islanders; as likewife the Root of the Plant, for curing of a Disease they call the Stomach-Ach, or a Pain in that Bowel. He further observes, that there are several Kinds of this Plant mer with in the Islands, which vary not, only as to the Size of the Leaves; but as this wou'd be too redious to decide, in this Place, I shall refer the Reader to the Book, where it is treated of at large.

8. Of Long Black Pepper.

Besides the other two Sorts of long, black Pepper, of which I have been speaking, we fell, sometimes, tho' very rarely, a third Sort, by the Name of long, black Pepper, or Ethiopian Pepper, Moorish, or Zelim-Berry. This Pepper is the Fruit of a those of Plantane, which produces a Fruit, creeping Stalk, which produces neither

Heads of the Bigness of one's Thumb End, hard and half round; from whence proceeds feveral Pods of the Length of one's little Finger, and the Thickness of a Quill, brown without, and yellow within. These Pods are divided by Knots, and in each Knot is found a little Bean, black without, and reddish within, without any Taste or Smell. That which is most like the Pod, which is of a hot, acrid, biting Taste, and pretty Aromatick, especially when held long in the Mouth, and by reason of its great Acrimony, the Ethiopians make use of it for the Tooth-Ach, as we do that of Pellitory of the Wall: But as this Pepper is little known, and very scarce in France, I shall trouble you no farther with an Account of it.

9. Of Guinea-Pepper.

GVinea-Pepper, which the Americans call Mexico-Pepper, Tobago, Brasil, Spanish, long, red Indian-Pepper, of Chilli-Axi, and we French-Pepper, Pimento, or American-Pepper, is a red Pepper, whereof there are three Sorts, viz. The First that we sell, which comes in Pods of the Thickness and Length of one's Thumb. The Second is much smaller, and comes almost in Shape of a Mineral, and as it were emboss'd. The Third is much less, and almost entirely round. All the three Sorts of Pepper, as they hang to the Plant, are Green in the Beginning, Yellow when half ripe, and Red at last: Of the three Sorts we fell only the First, in that the Others are too acrid, that the Natives can't make use of them, as being to hot for the Mouth.

The Guinea-Pepper, which we fell, comes from Languedoc, especially the Villages about Nismes, where they improve it very much: And this Plant is at present so very common, that we have little or none from the Gardens, but the Fields altogether supply the Shops: The Use of it is chiefly for the Vinegar-Makers to turn into Vinegar; for which Purpole it ought to be fresh, in fine Pods, well dry'd, and of a good red Colour. this Pepper raw, as we do Radishes; but it and fine Aromatick Taste; I never saw any

Leaves nor Flowers, but only five or fix is much more grateful to the Palate and Sromach, and must undoubtedly please better in. Sauces, being preserv'd in a Pickle thus: Take strong Brine that will bear up an Egg, Wine-Vinegar, of each a Quart; good Spirit of Wine a Pint; put the Pepper-Pods into it, as well unripe and green, as those that are ripe, and of a red Colour.

10. Of Cloves.

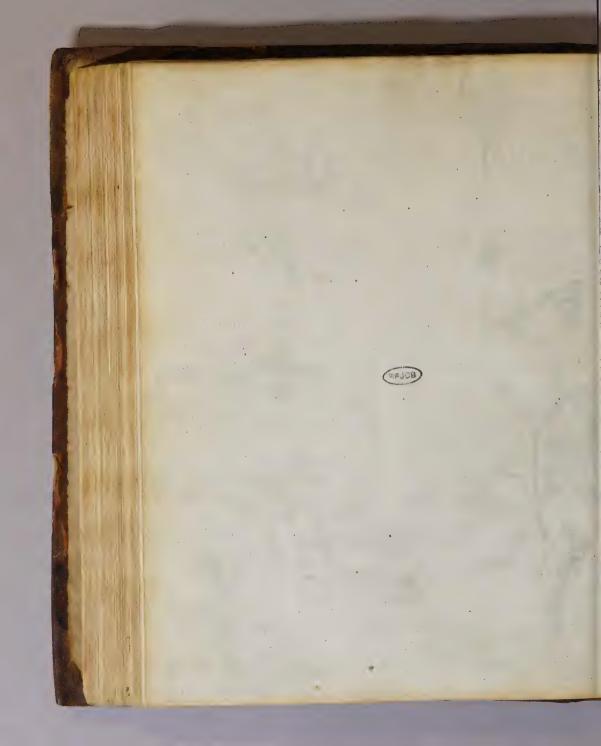
HE Clove, as is commonly thought, is the Flower of certain Trees, that is made hard and black by the Heat of the Sun: They were always very common in the Molucca Islands, 'till of late Years, the Dutch not being able to hinder the English, Portuguese and French, from going thither, and bringing away Cloves from thence, thought it advisable, to make themselves entirely Masters of that Commodity, to pluck up all the Trees and transport them to an Island of their own, call'd Ternate, by which Means other Nations are forc'd to purchase that valuable Merchandise from them.

As to the Leaf of the Tree, bearing the Clove, the Figure here represented in the Plate, which was taken from the Original, deliver'd by Mr. Tournefort, will give any Body Satisfaction: Here is the Root, the Stalk, and the Leaves in the Figure, mark'd A, which came from two Cloves which were planted; and which, in a little Time, produced that little Root, Stalk and Leaf, as

represented.

When the Clove begins to appear, it is of a whitish Green, afterwards reddish, and according as it ripens it grows brown; and that without being steep'd in Sea-Water, and dry'd before the Fire, as some Authors have observ'd: For the Dutch, and Natives of the Islands make no other Preparation of the Clove, than after it is fallen from the Tree, to let it dry in the Sun, expos'd in the open Field; and after that to keep them carefully from the Air: As it is impossible but there must remain some Cloves upon the Trees after the Crop is got, these grow Some People make Comfits of this Pepper to to the Size of a Man's Thumb, and become carry to Sea; and the People of Siam eat a hard, black Fruit, of a pleafant Smell,





little Finger: We now and then meet with some of these Cloves, but very seldom, because the Dutch sell them separately, by the Name of the Mother Clove; and these large ones are known in Phyfick, by the Name of Antofle ; but the little Use of 'em is not a sufficient Encouragement to the Apothecaries to enquire after them; otherwise they are much properer for Ule, as abounding more with an Oyl that is vastly more Fragrant and Aromatick, and endowed with much greater Vertues than the common Clove.

It is observable, that where the Clove-Trees grow, no Tree or Plant will thrive, because of the great Heat of these Trees, which consumes, or wasts all the radical Moisture of the Earth round about them. It is observable likewise, that there are no Trees, or Plants in the whole World, that afford so sweet a Smell as the Cloves when

they first appear.

Chuse such Cloves as are well fed, or oily, dry, brittle, or easie to break; of a tawny Red, well furnish'd at the Top, or Head, to which some improperly give the Name of Antofle; I mean, by their Furniture, the little Head at the Top of the Clove, which is very tender, and of a clear, tawny Colour; and which being put into the Mouth, yield a hot, piquant, aromatick Tafte; and reject, or throw by fuch as are lean, blackish, soft, and without Taste or Smell; taking Care that fuch as appear to the Eye to be good, have not had an Oil, or Tincture, extracted from them, which renders them of a flatt, bitter, earthy Tafte. The Use of this Drugg is too well known to need any Account of its Virtues, which are so considerable, as to give it a Rank among the best Cordials.

The Dutch candy Cloves when they are Green, and they make an excellent Confect, which is of great Use to carry to Sea, to correct and expell Wind, prevent Crudities of the Stomach, Fainting, swooning, &c. to reftore Nature where decay'd, and recover a weak and languid Constitution, giving Heat and Vigour to the Body, and Motion

to the Limbs.

The Dutch distill a great Deal of essential Oil from the Cloves, and too often impose em on Strangers afterwards for a true Com-

fo large, but only of the Bigness of one's modity: This Oil is us'd by the Persumers. Surgeons and Apothecaries, in feveral Compositions, and as a Corrective for many Sorts of Purges, as Pilulæ ex duobus, &c. There is a white Oil of Cloves made by Means of Fire, a Drinking-Glass, and the Bottom of a Weight Scale, as observ'd by Mr. Lemery; but it is scarce worth the Time of doing it, and is not much better than the other Sort.

11. Of the Royal Clove.

Here is another Clove express'd in the Figure we meet with now and then in Holland, tho' it is but feldom, which is a small Fruit of the Shape and Bigness of a Barley-Corn, and which terminates in a Point, sticking five or fix together upon one small Branch; so that they resemble, in some

Measure, a little Crown.

This Clove is of an Iron Colour, and has the fame Taste and Smell as the common Clove. The Tree which bears it, is the only one in the World; and only found in the Middle of the Isle of Massia, in the East-Indies, where it is call'd, by the Inhabitants of the Island Thinca-Radoi, which fignifies Royal-Clove. This Fruit, by the Order of the King of the Island, is guarded by Soldiers, that no Person may have it but himfelf. They pretend likewise, that when this Tree is loaden with Fruit, the other Trees bend down towards it, to pay their Homage; and that the Flowers of the common Clove fall off, when these begin to appear. The Indians Rring this Fruit, and make Beads of it, to carry about them, because of its agreeable Smell.

I shall fay no more of this Clove, having nothing certain that I can collect; and having never feen it, notwithstanding all the diligent Enquiry I have made: But as the Thing has been certified to me by a Person who saw it in Holland; and that Pifo speaks of it in his Natural History, from whence the Figure is taken; and that Mr. Wormes quotes it in express Words, from the 203d Page of his Book; the Sense of which I have already given you in English; but for the more Curious, I shall deliver it in the Ori-

ginal.

ne quod sciam hactenus descriptus, florem po- an Oil by Distillation, is to make a Kind of tius quam fructum Figurà referens, longitudine est grani bordei, ejusdemą; ferme latitudinis, oblongus, angulosus, sex vel octo cuspidi- Salt, and oily Parts, more effectually from bus alternation è lateribus erumpentibus & in the earthy Parts, thus: Take Cloves, grofly summitate quasi coronulam constituentibus, Colore ferrugineo, odore Gariophyllorum aromaticorum, sapore acri & plane gariophyllaceo. Provenit in Insula Macciam India Orientalis; well; put it into a gentle Heat, in Sand, ab Incolis vocatur Thinca Radoi, quod expo-

nunt Gariophyllus Regius.

Magno in pretio apud Indes sunt hi Gario-phylli, & ad nos raro deferuntur. Unicam faltem ferunt esse bujus fructus arborem in tota India in medio dicta Insula steam. Flores ubi producit bæc arbor decidunt flores reliquarum arborum, quæ commmunes ferunt Gariophyllos. Arbores etiam relique versus hanc se incurvant honorem quasi deferentes, ut aiunt qui viderunt. Rex Insulæ Satellitibus hanc arborem stipat, quamdiu fractum fert, ne quis præter ipsum eo gaudere possit. Hæc ex ore ejus qui in Insula fuit & arborem se vidisse testatur ; quæ, si vera, mira. Fructus filo per longitudinem trajicere solent, ut Armillarum loco, ob odoris gratiam, in brachiis gestentur.

Cariophylli, five Gariophylli, in English Cloves; they are call'd a Fruit, Lemery. but are rather an Aromatick Flower, from an Indian Tree, whose Leaves are long, broad, and pointed; when the Fruit begins to appear, their Colour is of a whitish Green, afterwards they grow Red; and at last, when ripe, are of a dark Brown, as we fee them of now. The large Cloves are call'd, in Latin, Antophylli, or the Mother Cloves, but they are very scarce. There is also the Cariophyllus Regius, or the Royal Clove : [describ'd by Pomet from Piso] it has this Name from bearing on its Top a Sort of Crown; for which Reason the King of the Country keeps it in his own Possession; and because there is a common fabulous Opinion, that the other Trees bow towards this, as their King.

The Cloves, in general, are cephalick, neurotick and cardiack, proper for Epileply, Paify and Vertigo; are good in Wind and Cholick, and are allow'd, especially, the ples; mix and make a Balsam for internal Oil, to be the best Specifick in the Tooth-Ach: They are us'd in Powder, Tincture,

Gariophyllus Regius fructus est, a Nemi- Water, Spirit, Oil, Sc. The Way to make Putrifaction first, in Order to dissolve all the Parts of the Clove, and to force the volatile bruis'd, one Pound; put to them Fountain or Rain-Water, luke-warm, two Quarts; cover it with a Vessel close, so as to lute it for fourteen Days; then put all the Matter into a Copper Vesica, tinn'd within, which cover with its Head and Refrigeratory; add a fit Receiver, lute the Junctures, and distill with an immediate, quick, Coal Fire; shifting as Occasion requires: Continue 'till you have distill'd about two Thirds of the Humidity; this done, and the Veffels being half cold, feparate the spirituous Water which swims above the Oil; putting up that into a Glass-Vial, which keep close stop'd for Use. Cohobate the distill'd Water upon the Fæces, and distill again as before, so will you have more Oil, which the first Distillation cou'd not raife, which add to the former Oil, keeping the distill'd Water also for other Uses.

Or take Powder of Cloves, one Pound: warm Water, two Quarts; macerate them for a Formight; then put all into a Glass Retort, and diffill in a Sand heat, with a moderate Fire, so will Oil and Water come over, which feparate as before; and cohobate the Water as in the former Operation; so will you have all that the Clove contains of Oil and volatile Salt, which is Cephalick and Cordial, besides its other Vertues, given from one Drop to Three, incorporated with double-refin'd Sugar, and mix'd with some proper Vehicle, either liquid or folid, as in Boles, Opiates, Pills, Tablets, or the like, as you see Occafion. It may be also mix'd with Oil of Nutmegs, by Expression, to anoint the Temples for the Head-Ach, and the Stomach, to strengthen that Part, and procure Dige-Rion. A pretty Cephalick Balsam is made with Oil of Nutmegs, one Ounce; Oil of Cloves, one Dram; Musk and Ambergriese, each six Grains; Oil of Cinamon, ten Drops; Oil of Mace, two Scru-

and external Cases.

12. Of the Nutmeg.

THE Nutmeg, or Aromatick Nut, which the Latins call Nux Moschata, Myristica, or Aromatica, is properly speaking the Almond, or Kernel of a Fruit of the Size of our green Nuts, which we diffinguish into two Sorts; to wit, into the Male, or long Nutmeg, and the Female,

or round, common Nutmeg.

The Tree that bears the Nutmeg is of the Bigness of the Peach-Tree, and the Leaves have a very near Resemblance to those mention'd by Dalechamp, except that they are shorter and narrower; after which come Fruit of the Nut or Abricot Size. This Tree, according to Mr. Tavernier, is not planted, but grows by Means of certain Birds, or Fowl, which swallow the Nutmegs whole, and throw them up again without having digested them; and that the Nutmeg being then cover'd with a viscous and gluey Matter, and being cast upon the Ground, they take Root, and produce a Tree, which grows just as if it had been planted after the Manner of others.

The Nurmeg is likewise a Commodity which none but the Dutch are Masters of, because it is cured no where but in the Isles of Nero, Lontour, Pouleay, Rosgain, Poleron, Granapuis, and in the great Island of Banda in Afia, not elsewhere: Likewise, as a late Author lays, it is remarkable, that so little a Spot of Land shou'd furnish all the World with Nutmegs; which is not hard to believe, when one confiders, that these Isles are so stock'd with Nurmeg-Trees, that it is almost incredible; and besides, these Parts lye in so good a Climate, that the Trees are always loaden with Flowers and Fruit, and that they have three Crops a Year; to wit, in April, August and December; that of April is much more valued than those which are got in August or December; and the Climate is so temperate, that the Men live to one hundred and twenty Years of Age, and have nothing to do but eat, drink and fleep, and now and then walk about, while the Women imploy them-Shells wherein is the Nutmeg, being the cold Causes; and this is call'd the Duke's

chief Commodity of the Country, and al-

most all they live by.

The Nutmegs we sell are nothing but the Kernels of the Fruit, which are cover'd with a hard, thin, and blackish Shell; without the Shell is found a Covering, which is thin and reddish, of a sweet Smell, and Aromatick Tafte, and is what we call Mace, but vulgarly, and improperly, the Nutmee-Flower. After the Mace there is a green Browze, that is of no manner of Use. From whence it is to be observ'd, that the Nutmeg has three Wrappings, or Coverings; to wir, the Shell, the Mace and the Browze; and not barely Two, as a late Author has ob-ferv'd; and the Thing is fo true, that if any Person will give himself the Trouble to cut a Nutmeg Comfit in Two, he will find the three Parts, about which I have been

fpeaking.

The Trees which bear the Female, or vated, or improv'd Lands; but those which produce the long Nutmegs, grow in Woods and Forests, which makes the Dutch call 'em wild Nutmegs; but as they are little us'd, because they are almost without Taste or Smell, and void of any Virtue; for this Reason they are feldom brought hither. These Male-Nutmegs being call'd by the Ancients A-

As to the common Nutmegs, we ought to chuse such as are heavy, firm, hard, and of a full Plumpnels, of a light Grey, whole Outfide is finely marbled, and the Infide reddish, being of a fat, oily Body, which are the Signs of their Newness, and which being grated, affords a sweet Flavour, and put into the Mouth, yields a warm, piquant, aromatick Tafte. As to the little Hole that is met with fo very common in Nutmegs, 'tis a vulgar Error to believe, that that makes it loose its Virtue; for there is no Nutmeg without it, that being the Place where the Stalk adhered to the Nut.

The Use of the Nutmeg is so well known, it wou'd be needless to say any thing of it; I shall only add, that it is valued in Medicine, and being beat up with Sugar, there is a Powder made of it, which is admirafelves in separating the Browze from the Nut- ble, taken in warm White-Wine, for curing meg, drying the Mace, and breaking the of Catarrhs and Rheums, that proceed from

Powder.

and fome add Cinamon. The Inhabitants of the Isle of Banda make a Confection of the green Nutmegs, which is brought to us by the Way of Holland, sometimes with Syrup, and fometimes without. These Comfits are some of the Best we have, being very proper to strengthen and invigorate the Stomach, and to restore a natural Heat to Age; but their chief Use is to carry to Sea, particularly to the Northern Parts, where they are esteemed, as being great Lovers of these

Sorts of warm Sweetmeats.

As to the Oil of Nutmegs, by Expression, that which is brought us from Holland is no better than fresh Butter; which is the Reafon the Apothecaries chuse to make it themfelves, rather than buy it at such a cheap Rate, when it is good for nothing. The true Oil of Nutmegs ought to be of a thick Consistence, of a golden Yellow, a sweet Aromatick, and a warm, piquant Tafte. The Manner of making this Oil is so easie, and hath been so long known to every Artist, that it wou'd be superfluous, at this Time of Day, to pretend to teach it; only this may be observ'd, That when it is express'd, it will be liquid and clear; but when cold it coagulates, and becomes yellowish, of a solid Confiftency, and that it will yield a double Quantity of Oil this Way, from the same Weight, of any other Spice, Fruit, or Seed whatever. There is likewise another Oil made by Distillation, which is a white, clear · Oil, very fragrant, and has double the Strength and Vertue of the Former; and whatever the Nutmeg has fingly in it felf, is hereby highly exalted; so that four or five Drops is a Dose in any proper Vehicle; wherein it becomes Cephalick, Neurotick, Stomachick, Cordial, Hepatick, Uterine and Ahexipharmack; good against all old Diseases of the Head, Nerves, Womb, &c. expells Wind, Griping of the Guts, and Sicknels at Heart. The Mace that grows round the Nutmeg has all the same Virtues; discusses Wind, helps Concoction, cures stinking Breaths, strengthens the Child in the Womb, stops Fluxes and Vomitings; is of thinner Parts than the Nutmeg, and there-Fore more piercing. The Oils, by Exprefsion and Distillation, are made the same Way

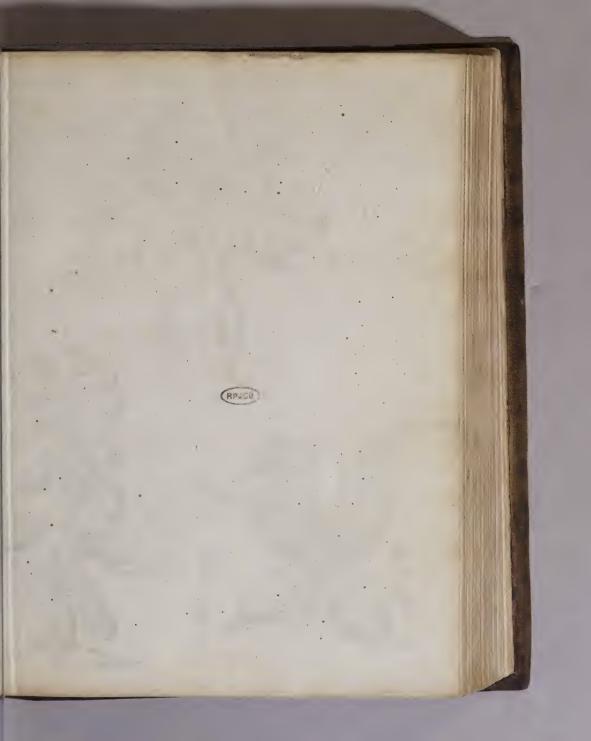
Powder. The usual Quantity is to put two as those of Nutmegs; Chuse such as has the Ounces of Nurmegs to a Pound of Sugar, largest Blades, the highest and freshest Colour, and that is the cleanest you can get. As to the Bark, the Trunk, and the Branches of the Nutmeg-Tree, they are so little used. that they are not worth speaking of, because they are so seldom brought hither; and by Reason of their great Likeness to the white Costus, both in Figure and Taste: So that some sell Costus for the Nutmeg Bark, which you ought to beware of.

Nux Moschata, Moschocaryon, Nux Unguentaria, or Nutmeg, is a Lemery. Kind of Nut, or Fruit, of a foreign

Tree, as large as a Pear-Tree, with Leaves like the Peach, but they are much smaller: The Flower is in the Shape of a Role, of a pleasant Smell; after which is fallen off, a Fruit appears as large as a green Walnut, cover'd with two Barks; the First which is very thick, and pull'd off when the Fruit is ripe; the Second is much thinner and finer, reddish or yellowish; it is separated from the Nutmeg in order to dry, and is what we call Mace, not the Nutmeg Flower; this yields a great deal of Oil and volatile Salt.

When the Nutmeg is separated from the Barks, they dry and preserve it: The Tree which bears this grows plentifully in the Isle of Banda, where there are two Sorts, the wild and the cultivated, or Male and Female: The Male, which is a long and large Nut, is feldom us'd: The Female, which is the rounder and leffer Nut, is that generally fold in the Grocers Shops; when gather'd, some say they are laid in Quick-Lime, in the Indies, for two Reasons: First, That being carried into other parallel or proper Climes, they might not grow, for so in Time it might prove to their Damage. 2dly, That being thus cured, the Worm might not take them: The Best are those of a reasonable Size, fresh, heavy, firm, nor spongy, of an Oilyness when grated, and of a pleasant Smell and Taste, not too bitter or acrid. They fortifie the Brain, Nerves and Stomach, affift Digestion, expell Wind, provoke the Terms, and refift Putrefaction.

Chuse your Mace fresh, whole, of a yellow Colour, a good Smell, and agreeable Taste, being a little acrid; it has the same





are more exalted, and it acts with greater Penetration and Efficacy. The Mace Bark or Wood of the Ancients, is the Bark of the Trunk of a Tree of the same Name, which grows in Barbary, and is thick, reddith, and of a bitter, smart Taste. Its Virtue is aftringent, and proper to ftop the Bloody-Flux, and other Fluxes of the Belly; but as this Bark is feldom brought among us, they impose it instead of Mace, tho' the Qualities are different, and so confound the Mace Bark with the true Mace.

13. Of Coffee.

CAffe, Coffe, Coffi, Buna, Bon, Ban, or Elkaine, is, according to a modern Author, the Fruit or Berry of a Plant, whose Stalk resembles that of our House-Bean; but as he is a Person on whom we can lay no Stress, I shall hold with Baubinus, that celebrated Author, who fays, that Coffee is the Fruit of a Tree, whose Berries are brought from Arabia Fælix, and that the Tree is like Spindle Wood, or Priefts-Cap, and that the Leaves are thick, and always green, according as it is represented in the Figure, which is taken from the said Baubinus.

Chuse your Coffee greenish, fresh or new, and that does not smell musty, but whose Berry is of a middle Size; in short, the cleanest, dryest, and plumpest that can be had. As to those who have it brought from Mirseilles, where they buy whole Bales together, let 'em take Care that the Bottom of the Bales be not mouldy, by which means the Goods will spoil and damage the whole Cargo. Coffee is us'd for little or nothing, that I know of, but to make a Liquor with Water and Sugar, which is more or less esteem'd. according to the Country, that are Drinkers of it; which where it is valued, there is a great Confumption made of it, in the prepar'd Berry, which is done by drying it in an Oven or Kiln, so long, 'till it is well parch'd, or rather half calcin'd, and looks not of an absolute Black, but rather of a dark Purple, inclining to Black; if it be well burn'd, and not over high, it has a grateful Flavour; but if over much, or too little done, or if after-

Virtues with the Nutmeg, but the Virtues wards it be ground any Time before it be used, it loses all its Force and Virtue; so that in making Coffee, the Powder is to be fresh ground, and us'd immediately; for an Hour's Time will pall and flat it, so as it shall lose all its volatile Parts, which float like an Oil upon the Liquor, when fresh; but upon the least Keeping, after reduced to Powder, its essential Particles are so subtile as to fly away, or be destroy'd by the Corrofive Nitre of the Air, which being expos'd but for a few Minutes, they instantly im-

> Caffe, Coffe, or Coffee, is a small Berry, longish and round, Lemery. like a Pine Apple, of a dark, brown Colour; its Bark is a Kind of Husk that is a little hard and woody; it encloses a Berry as large as a great Pea, of an oval Figure, dividing itself into two Parts, yellowish, inclining to white; the Fruit grows upon a Tree of the same Name, which is common in the happy Arabia, from whence it is transported through all the Dominions of the Great Turk, and from Turkey brought to us, as is suppos'd cur'd, that it might not be planted in other Countries.

> It is of an excellent drying Quality, comforts the Brain, and dries up Crudities in the Stomach: Some Authors fay it cures Confumptions, Rickets and Swooning-Fits; it helps Digestion, eases Pains of the Head, rarifies the Blood, suppresses Vapours, gives Life and Gaiety to the Spirits, hinders Sleepiness after Victuals, provokes Urine and the Courses, and contracts the Bowels; it is an excellent Dryer, fit for moist Bodies, and most Constitutions, but that of young Girls, subject to the Green-Sickness; and likewise is prevalent in such as are apt to running Humours, Sores, or King's Evil upon them: It helps Abortion, and confirms the Tone of the Parts drunk after Eating, but with this Observation, that this Liquor be always made fresh; for if it stands but two or three Hours, it will be pall'd, and grow naught. It is an effectual Remedy against Worms in Children; so that if the Mother drink but frequently of it, when with Child, the Infant shall not be afflicted with Worms, during its Infancy.

14. Of the Cacao, or Chocolate-Nut.

Pomet. THE Cacao, which the Americans call Cacavi, is a Fruit of feveral different Sizes; but the most usual is that of an Almond, which is found united together in a Sort of Shell, not much bigger or less than the Pomegranate Seed; and in these Shells are enclos'd about fixty or eighty Fruit of the Trees, they appear as represented in the Figure taken from the Original, or Life, as deliver'd to me by Mr. Tournefort; ripe upon the Tree, are of a very fine yellow Colour, and rib'd like the Melon.

cond whereof are call'd Cacabuaquabuitl, ruption, Cacao. the Third Xuchicacahuaquahuitl, the Fourth Tlacacabuaquabuiel: This is what he relates, Guatimala, Hispaniola, Cuba, New-Spain, as to the sour Sorts of Cacao's, which we now Jamaica, &c. in hot, but shadowy Places, fell, which certainly come from different for being planted in Ranks and regular Trees; the First and best Sort is call'd the Walks, shady Plantane-Trees are rang'd with large and small Carack, from the Province them; the one to shelter the other, least the of Nicaragua, from whence these Sorts of parching Sun, by its excessive Heat shou'd make Bread of different Sizes, for the once. Use of different Sorts of People.

or Foundation of Chocolate, and from whence it takes its Name: It grows in America from a small Tree call'd Cacavate, well supplied with Leaves that resemble those of the Orange-Tree; but that they are longer, and more sharp-pointed; the Flower is large, and of a yellow Colour, and leaves, in falling off, long, stringy Filaments, which are green, from which a yellow, pointed Fruit is form'd of the Size of our Melons; each Fruit contains twenty or thirty little Nuts, or Almonds, as Berries. As to the Shape, Leaves, and entire big as the Piftachia; and sometimes there are fuch as contain fourfcore of thele; they are each of them cover'd with a yellowish Pellicle, or thin Skin; which being separathe Leaves are green, and the Fruit, when ted, a tender Substance appears, which is divided into several unequal Particles, that are oily, of good Nourishment, and leave a Mr. Tournefort, in Page 191 of his Book, certain Acridness upon the Palate. The Inmakes Mention of four Sorts of Trees habitants of the Country where this grows, which bear the Cacao-Nut; the First and Se- call it Cacabuael, and the Spaniards, by Cor-

It grows in all the Spanish West-Indies: Cacao's are brought: The Third and Fourth kill them, or the boisterous Wind injure them. are call'd the large and small Island Cacao's, This Cacao-Tree, not exceeding our Cherry-because they come from the American Isles, Tree for Bigness; as it is a Tree of singular as St. Domingo, &c. The most valued of Beauty, having large, broad, oblong, green the four Kinds of Cacao's is the large Ca- Leaves, which fall back, and hang like fo rack, especially for making Chocolate, which many Shields, to preserve and defend the is the chief Use; for the small Quantities tender Fruit; so it is a Tree of great Profit that are eat of it, are not worth speaking of; to the Owner, arising from its most desirable they all ought to be chose fresh, plump, Fruit, which grows after an admirable Manweighty, blackish without, and of a deep ner in Cods; studded, as it were, in the Red within, well tasted, and not of a musty very Body of the Tree, as well as the Arms Smell: The small Carack is next in Virtue and Boughs, from the very Earth upwards; to the Great. As to the Island Cacao, espe- each Cod containing about thirty or forty cially the Large, the nearer it comes to the Nuts, regularly fet in a Mass of soft, slimy Carack, the better it is. Some Authors fay, Pulp, both to preferve, as well as nourish, that the Cacao is in such use in Mexico, that the tender Fruit: The Nuts, among the it is the chief Drink of the Inhabitants of Indians and Spaniards, go for current Money, the Country, and that they give it as Alms, even in those Countries where Gold and Silor Charity to the Poor: Besides, the other ver are naturally produc'd; There it is Food Sorts that come from the Isles, are ground to and Raiment, Riches and Delight all at

> The Cod is faid to be very like the Pear. The Cacaos, or Cacao, is a Kind or Pear fashion'd Gourd; each Nur is about of Almond that is made the Basis the Bigness of an Almond Stone, and cover'd

with

nut-colour'd Kernel, with brownish Ash-coin Taste, tho' not altogether so to us. The Cods being gather'd they break them, take out the Nuts, and lay them upon Mats to dry in the Sun, 'till the Moisture within them be consum'd, and then keep them both for Meat and Merchandise.

This Fruit is certainly cooling, as may easily be descerned by their cold, nitrous Taste: They open Obstructions, restore in deep Confumptions, stimulate to Venery, causing Procreation and Conception; facilitate Delivery, preserve Health, help Digestion, make People enclinable to feed, ease Coughs of the Lungs, Gripings of the Bowels, and Fluxes thereof; cause a sweet Breath, and affift in a Difficulty of making Urine: The chief Use of 'em is in Chocolate, which is fo well known, there needs no long Difcourse about it.

15. Of Chocolate.

TE fell feveral Sorts of Chocolate, which have no other Difference, but according to their Fineness and Goodness, the Druggs that compose them, and the Countries where they are made: But the best Chocolate, and the finest, is what we make now at Paris, especially when it is made with the large Carack Nut, and wrought up with the finest Sugar, good Cinamon, and the purest and best Vanilla's: In shorr, when it is made by an honest Man, who understands how to prepare it, and will neither spare Labour or Cost; for it is impossible to afford good Chocolate at a common Price; and the most of those who sell their Chocolate at such easie Rates, cou'd scarcely buy the fine Sugar we make use of, at the same Price; altho' some still cry up the West-India, Spanish, Portugal, and St. Malo's Chocolate, at this Time there is no Place in the World where they make better Chocolate than at Paris. I did not think proper to give you the Composition here, it, and the Compositions are so various, that when they are dry enough to keep, they rub

with a thin Shell, blackish without, contain- cies. Nevertheless, I cannot forbear acing within a brownish red, or almost Chef- quainting you with what is propos'd by the Sieur Blegny, in his Book, who mentions the lour'd Veins, which to the Indians is pleasant Flower of Orejevalla to be added to the Composition, because it is a Drugg, which I believe to be imaginary, as not being able to know what it was, after the most diligent Search I cou'd make. And the Sieur Blegny, who calls himself the Author of that little Book, which I have just mention'd, had Reason to say he cou'd not meet with it among the Druggists; for he cou'd not give me any Account of it: When I ask'd him, before a certain Person, what the Orejevalla Flower was, he told me it was what went into the Composition of the American, or Indian Chocolate, which he had feen in feveral Books. As to the Achietl, that is nothing elfe but what we call the Rocou, which is not made as the said Author says, but as it is set forth in its proper Place in this Treatife; and after knowing that the Achiotl was the Rocou, there are very few Grocers but cou'd have furnish'd him with it, and he needed not have put it in his Book, that he cou'd not meet with it at the Druggists.

16. Of Vanilla's.

THE Vanilla's, according to the Sieur Rousseau, are Pods or Pomet. Cods, of about half a Foot long, of the Thickness of a Child's little Finger. which hang upon a Plant of twelve or fifteen Foot high, that climbs like a Creeper; for which Reason they grow most frequently upon Walls, or at the Roots of Trees, or else upon Props, or the like, where they are supported: They have round Stalks, difpos'd in Knots like the Sugar-Cane; from each Knot there, puts forth large, thick Leaves, about a Finger's Length, which are as green as the Stalk, and fall off, or wither away, as the great Plantane does; after which come Pods that are green at first, yellowith afterwards, and grow browner, according as they ripen. When they are ripe, the People of Mexico, those of Guatimala, and St. Domingo, gather them, and hang 'em up since there are so many Books that treat of by one End, in the Shade, to dry; and every one are for pleafing their own Fan- them with Oil, to hinder them from drying

a Hundred, or a Hundred and Fifty, to Cordial, Cephalick, Stomachick, Carminabring them hither. Nevertheless, there are tive, Aperitive; it attenuates viscous Husome who value their Gain more than their Conscience, who let them hang upon the Courses; is mix'd in Chocolate, and makes Stalks 'till over ripe, and receive from them a black, fragrant Balfam, that flows 'till the effential Parts of the Vanilla is exhausted, and it can run no more; and then they gather the Pods, and pack them up for Sale, as aforesaid.

The great Lords of Mexico are mighty Lovers of these Plants, as well because of the pleasant Smell of their Fruit, which they mix plentifully in their Chocolate, as from the great Profit they yield them in Trade. They are the Spaniards who bring the Name of Vanilla, which fignifies a Sheath, because the Pod resembles the Fithick, long, new, heavy, not wrinkled or rub'd with Ballam; and which have not been kept moist, but of a good Smell; and beware of those that are small and dry, and of little Smell, and the Seed of which is very little, black and shining. The Vanilla's are much us'd in France for making up Chocolate, and fometimes to perfume Snuff. Some pretend the internal Part of the Pod is good to strengthen the Stomach. As to the Ballam, the Spaniards keep that, for we have none of it brought to us.

Thickness of a Child's Finger, sharp at both Ends, of a dark Colour, a pleasant Balsamick Tafte and Smell, a little acrid, containing very small, black, shining Seeds. This Pod is the Fruit of a Kind of Volubilis, or a Plant of four or five Foot rifes like a Creeper, and winds about the neighbouring or adjacent Trees, upon Poles, or climbs upon Walls: The Leaves resemble those of Plantane, but they are larger, and more flethy; the Flowers are blackith. This Plant grows in Mexico, where the Indians call it Tlixochitl, and the Pod Mecafuthil.

Chuse such Vanilla's as have the longest Pods, pretty thick and heavy, well fed, of

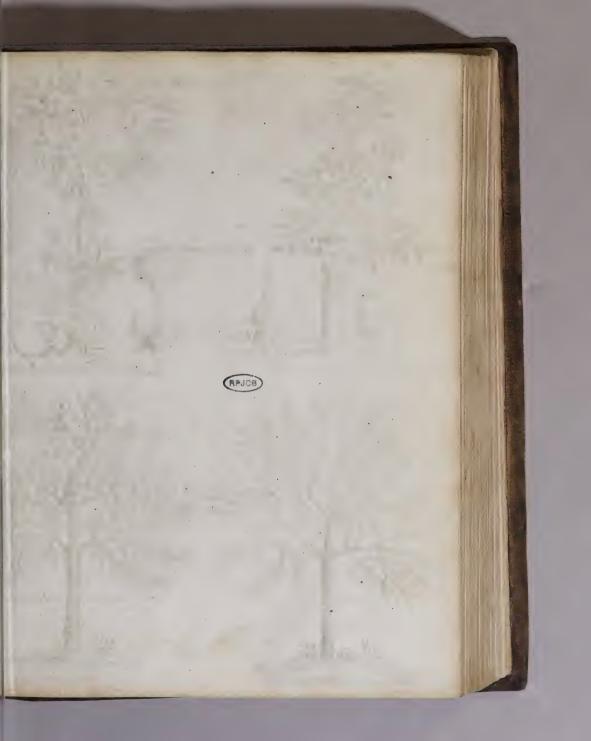
too much, and prevent their breaking, and a good Taste, and pleasant Smell; it yields then they put them up in little Bags of Fifty, a great deal of Oil and volatile Salt; is mours, provokes Urine, and Womens it agreeable both to the Tafte and Smell.

17. Of Acacia.

HE Acacia's, fo called by some, are the Fruir, or rather Pomer. the Seeds of a yellow Fruit, inclining to red, of the Size of a Magdalen Pear. or an Orange: The Tree which bears these, is according to the Sieur Rousseau's Letter. five or fix Foot high, adorn'd with Leaves of a us this rich Commodity, and who give it yellowish Green, and something of the Shape of Ivy. The Flowers are imall, and grow in Tufts, of a Carnation Colour, from gure of a Sheath: It is of a pleasant Taste whence comes a yellow Fruit, as said before; and Smell. Chuse such as are well fed, at the Bottom of which hang other Fruit or Seeds, of the Bigness of Chesnuts, of the Shape of a Kidney, and of an Olive Colour, cover'd with a Nut or Scone, in which is a white Almond, which after it has been roasted like a Chesnut, in the Fire, is pleafant to ear. There is contain'd, likewise, in the Kernel of these Acacia's, a black cauflick Oil, which is a good Remedy to cure Corns upon the Feet, and take away red Spots in the Face.

The Americans cut the yellow Fruit in Slices, and eat it with Sugar, as we do a Vanilla, or Vanillas, is a Pod of Lemon; as well to revive the Spirits, as to Lemery, about half a Foot long, and the cool them, because they are full of a welltafted Juice: Chuse such as are large and new, of an Olive Colour, with white Kernels, which are the certain Signs they are fresh, and not of a Chesnut Colour, which is a Token of their Age and over Ripenels.

Acacia vera seu Egyptiaca, the high, which the Spaniards call Campeche; it true Acacia, or that of Egypt, is Lemery. a thick Juice, very heavy, of a brown, reddish Colour, which is brought in the Shape of Balls, that weigh about five or fix Ounces, ty'd up in very thin Bladders: They say it is made from a Fruit almost like Lupins, contain'd in Pods which are born upon thorny Trees in Egypt, whose Branches are pretty much extended, bearing fine white Flowers: Chuse that which is neat,





Oil, and effential Salt; is aftringent, incrasand refifts Poison, stops Hemorrhages and Fluxes, and is good for Indispositions of the Eyes. As the true Acacia is sometimes scarce, the Shops use or sell that which is made of the Juice of Sloes, or the Fruit of the black Thorn brought over in round Balls, wrapped up in Bladders, of a very tharp, stiptick, or aftringent Tafte; it is us'd in Rob or Quiddony, made with Damask-Rose-Water, and double-refin'd Sugar. The true Acacia is made by Expression out of the Fruit, and that either ripe or unripe; from the ripe Fruit there is a black Juice so call'd; from the unripe Fruit a red or yellow Juice, the Colour not so black, but more inclining to red, and of a sweet Scent; and this is the true Acacia of Dioscorides and the Ancients, which is to be used in making of Venice-Treacle.

18. Of Anacardiums.

THE Anacardium is a Kind of Pomet. Bean, brought from the East-The Tree which bears it has greenish Leaves that are half round; after which come Pods of the Size of the large Bean, in which are usually inclos'd two Anacardium's; which when half ripe, are of the Colour of burnt Coffee; but when full ripe are of a thining Black. Chuse such as are large, well fed, new, dry, and have in them a white Almond. They pretend that the green Fruit of these are a dangerous Poison, but otherwise when dry: After they are prepar'd in Vinegar, they become a good Purgative; but nevertheless they ought not to be meddled with, without the Advice of an able Physician: They yield an Oil like the Acacia's, which has the same Virtues.

Anacardium is a Kind of large Measure of the Shape of a Bird's it a white Kernel. This Fruit grows on a is not poisonous. Tree in the Indies, whose Leaves are almost

folid, weighty, of a blackish Colour, some-round, and the Fruit in Pods, of the Size thing reddish, shining, easie to break, and of our Windsor Bean; holding, each, not a fliptick Tafte; it affords a good deal of above two Anacardium's, which afford Oil, and are fold in great Plenty; they rarify fates or thickens the Humours, strengthens and purge the pituitous Humours; are refolving; refresh the Brain, and strengthen the Memory, being taken in Decoction.

19. Of Hermodactyles.

HE Hermodactyles are Fruit shap'd like an Heart, reddish Pomet. without, white within; of a light Substance, very subject to Worm-eat, which is brought out of Agypt, where the Trees which bear this Fruit grow plentifully. After the Diligence that I have used, in order to discover the Flowers and Leaves of these Trees, I think it need no longer remain a Surprize on this Head, when I say that the Hermodactyles are Fruit, notwithstanding all that Authors have hitherto said concerning their being Roots; and the Figure of the Hermodactyles, here given, will show to the contrary, it being easie to judge that they are Fruit and not Roots: And the more so, from what was writ from Marseilles the last Year, that the Hermodactyles coming from Ægypt, were the Fruit of a large Tree: Chuse such as are fresh, large, well-fed, reddish without, and white within; the driest, and least full of Dust that can be got : It is a Commodity of which they lay in no great Store, it being so ready to decay, or Worm-eat, as I mentioned before; they are much us'd in Physick amongst several galenical Compositions.

The Hermodactyle is a tuberous or bulbous Root, as thick as a Lemery.

little Wallnut, being of the Shape of a Heart, red without, and white within; of a spongy, light Substance, without Fibres, easie to break, and crumble into Powder like Meal, of a sweetish Taste, a little glutinous; it is brought dry from Egypt and Syria. The common Opinion is, Lemery. Fruit, like a Chefnut, being in some that it is a Sort of Colchicum, call'd by Gasp. Baubinus, Colchicum radice siccata Alba; the Heart, whence it derives its Name; it is Colchicum with the white dry'd Root; and of a shining, black Colour, containing in by Lobel, the Hermoda Hyle of the Shops that

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134 There are others that believe it is a Kind of tuberous Orrice, call'd by Casp. Baubinus, and fleshy, of a good Kind, that have been Iris tuberosa folio anguloso, the tuberous Or- well dry'd, that they may keep without rice with the many corner'd Leaf, and by Matthiolus Hermodactylus verus. Mr. Pomet is of a quite different Opinion, as you have it before, for these two Reasons: The First, to loose 'em all: They taste, when well because this is more of the Shape or Figure gather'd, and rightly manag'd, like Raisins of a Fruit, than of a Root; and the Second, of the Sun, with one Stone, like a Prunebecause they write from Marseilles, that the Hermodactyles come from Egypt, and that they are the Fruit of a large Tree: The first Reason does not appear a good one to me, because I have found Hermodactyles to be more like the Shape, or bear a greater Resemblance to a tuberous or bulbous Root, than planted into Italy, France, Go. are those that of Fruit; and if one confiders the Substance, it is very like the Root of Arum, and several others: The second Reason does not better convince me than the First; for those who writ from Marfeilles, that the Hermodallyle was a Fruit, do not appear to have been better inform'd, or understood the Matter any clearer than before; so that we ought to sufpend our Judgment on this Affair, and wair till it is decided by more Travellers that can give a better Light into this Bufinels, and sufficiently clear up our Doubts: It is a finguar Purge, expelling tough Flegm, and clamby Humours, from the Joynts and extream Parts of the Body; and is accounted a Specifick against the Gout in the Hands and Feet, given in Powder from half a Dram to a Dram; and in Infusion, from two Drams to half an Ounce. The Hermodactyle Pills are good against Palsies, Tremblings, Convulsions, Cholicks, Gouts, &c. being given from two Scruples to four.

20. Of Jujubs.

THE Jujubs are the Fruit of a Tree which grows commonly in Provence, but chiefly in the Garden of Hyeres, near Toulon, where it is in such great Quantities, that almost all we fell comes by the Way of Marseslles: That Tree that bears tied by short Stalks; each of which, ac them is of a moderate Height, and the Leaves are greenish, thin and fibrous; after which comes Fruit of the Bigness of one's Thumb End; green at first, and something reddish as they ripen.

Chuse your Jujubs fresh, large, well fed . Danger of rotting; and take Care that they be not kept in Places too moift, or gather'd when they are too ripe, for that is the Way Stone, in the Middle. Dodonaus faith, they are of two Kinds, viz. the Red and White; and the Red are of three Kinds, to wit, Jujuba major, Jujuba Minor; and Jujuba Agrestis: The First, which grew originally in Africk and Egypt, and were thence transwhich we chiefly use, being moderately hot and moift. This Plum is an excellent Pectoral, and opens the Body, temperating the Sharpness of the Blood and Humours; it expectorates tough Flegm, and is good against Coughs, Colds, Hoarseness, Shortness of Breath, Wheezings, Roughness in the Throat and Wind-Pipe, Pleurisies, Heat of Blood, Exulceration, or Excoriation of the Kidneys and Bladder, cleaning them; and by their mucilaginous Quality, making the Passages slippery: They are us'd, in a Decoction, for Stone, Gravel, &c. or for opening Obstructions in the Liver, Spleen, Dropfy and Jaundice, by Urine.

Jujuba, or Zizipha, a large Fruit of the Ziziph Tree, is like a mo-Lemery. derate fiz'd Prune or Plum, oblong or oval, Red without, Yellow within, fleshy and tender, of a sweet and vinous Taste, having a rough Skin, and a hard, strong Kernel: The Fruit grows upon a Tree call'd Ziziphus, by Tournefort, and wants little of the Plum-Tree in every respect; but is crooked, cover'd with a rough uneven Bark, that cracks or splits: The Branches are hard, furnish'd with strong Thorns; the Leaves oblong, something hard, terminating in a blunt Point, of a fine, shining, green Colour, flightly endented on their Sides; the Flowers growing among the Leaves, being cording to Mr. Tournefort, is commonly composed of five Leaves, like a small Rose which is placed in the Middle of the Cup of a graffy or pale Colour: When the Flowers are gone, the Fruit, or Jujubs, suc ceed; being green at first, and reddish as is to take such as is the greenest, the least they ripen: This Tree grows in the hot fetid, and freest form Water that can Countries, and is very common in Provence, from whence the dry'd Fruit are brought; they are Pectoral and Aperitive, being usually imploy'd in Prisans for Dileases of the Humours, by their fweet and glutinous Substance, and provoke Spitting.

21. Of Sebestens.

SEbestens are a blackish Fruit, that are brought by the Way of Marfeilles, from the Levant, &c. The Tree that bears this Fruit is about the Height of our common Plum-Trees; the Leaves green, and almost like them, but that they are a little rounder: The Flowers are whitish; in Form of a Star, from whence comes the Fruit, about the Size of ones's Finger End; it hangs to the Branch, by a little white Cup. as it is brought to us.

Chuse your Sebestens fresh, plump, moist, and full of Pulp, of a black, brown Coour outwardly, adorn'd with white Caps, which is an essential Sign of their Newness, and such as have neither been wash'd nor ub'd; the Flesh is sweet, viscous and pulby, therefore reject such as are otherwise, ind whose Caps are gone, which is a Token hey have been wash'd or rub'd; and also ake care not to chuse those that are hard,

mall, and of a reddish Colour.

The Way of using the Sebestens is much ne same as that of the Jujubs, and their Virues a-like, so that One is frequently us'd for ne Other: The Egyptians make a Gluey ort of Birdlime of the viscous Fruit, which call'd Alexandrian Birdlime; but as this ldom comes amongst us, we use that which made in several Parts of France in Nora andy, and about Orleans. This Birdlime prepar'd from the inner Rind of the green ark, and that of the Holly-Tree, steep'd a Pond or Pit, and afterwards beat together a Mortar, 'till it is reduced into a Paste, hd then well work'd with the Hand, and ah'd in the Water; it is put up in Barrels, be sent to several Parts: The Choice of it,

be got: The Use of it being to catch and in the Isles of Hieres, near Toulon, Birds, and other Creatures of the like Na-

Schroder fays, the Plums of the Sebesten-Tree are small, with a three-corner'd Stone; the Breaft; they sweeten the Sharpness of they are temperate in respect of Heat, and moift, foften, and prevent, or allay the Acrimony of Humours; us'd chiefly in Defluxions of Rheum, Obstructions of the Belly, and quench Thirst: You may make a Decoction of them with Wine and Water, to move the Belly gently to Stool; or make an Electuary of them thus: Take Sebestens without the Stones, Prunes ston'd, Pulp of Tamarinds, of each five Ounces; Violer-Water two Pints; Juice of the Herb Mercury, clarify'd, four Ounces; Sugar Penids half a Pound: Of the four greater cold Seeds, blanch'd, of each two Ounces; Diagridium three Drams: Boil the Sebestiens, Prunes and Tamarinds, in the distill'd Water, which being dissolv'd, mix with the Juices; then add the Penids and Pulp of Prunes, which being diffolv'd also, mix the Diagridium, and make an Electuary. It purges, and is good against exquisite, continual Fevers, taking away their vehement Hear, quenches Thirst, causes Rest, and carries off the Sharpnels of Humours, and provokes to Urine.

Sebestena, or Prunus Sebesten, is a Fruit the Size of a small Acorn, that is oblong, roundish and black, wrinkled as a little Prune, of a sweetish, viscous, or clammy Taste, cover'd at the upper End with a small woody Cap, of a whitish Grey: The Fruit grows upon a Tree of the same Name, refembling the Prune Tree; only that the Leaves are a little more Swallow-tail'd and indented; the Flowers are small, white, and like those of the Geranium: This Tree grows in Syria, Egypt, &c. Make Choice of your Fruit, according to the Directions given by Pomet; they contain in them much Oil, and some effential Salt; are moistening, emollient, sweetening, pectoral, and serve to open the Breaft, cleanse the Reins, provoke

Spittle, and relax the Bowels.

22. Of Dates.

which we fell; the Best are those which grow in the Kingdom of Tunis. There are likewise some that come from Sally in Africk, but those are lean and dry, and differ much from the others of Tunis, which are fat and fleshy: We have others that are brought from Provence, which do fell well, being large, fleshy, sair without, and white within. The Tree that bears this Fruit is the Palm, which is so well known throughout the whole World, it wou'd be unnecessary to describe it.

Chuse such Dates as are large, full and fleshy, of a golden, yellow Colour without, and white within; the Tafte sweet and pleafant ; let the Pulp be firm, white about the Stone, and reddish towards the Bark; of a Malaga Wine-like Tafte, which being shaken makes no Noise: If they are small, hard, without Pulp, or rattle, they are nought: Those of Tunis are worth much more than those of Sally or Provence, as hinted before. These Dates are so common, that they serve for the Subfiftence of more than an hundred Millions of Souls ; but for medicinal Uses, they are not much imploy'd, faving in the Diaphanicon, or Electuary of Dates, some pectoral Ptisans, with Sebestens and Jujubs, Gc. besides which, they are frequently eat as other Fruit.

Dastyli, or Fructus Palma, the Lemery. Dates, are oblong, roundish Fruit, a little larger than one's Thumb, fleshy, of a yellowish Colour, sweet and agreeable to the Palate, being enclos'd in a long, round, strong, hard Nut, of an Ashcolour'd Grey, cover'd with a little, thin, white Skin, and is brought chiefly from Tunis in Barbary; it grows upon a large Tree, call'd Palma Major, or Palma Dactylifera, whose Trunk is large, round, straight, high, cover'd with a thick Bark, rifing all the Way with feveral scaly Knots, which makes ir advantagious to climb; the Leaves only grow at the Top longwife, pointed as thole of the Flower de Lis, spiring, and opposite one to the other, branching about four Foot long, and as thick as one's little Finger;

triangular, hollow, spungy, and bending Archwise; the Flowers are white, and grow together on a Cluster, like a Bunch of Grapes, and are succeeded by the Dates; which, when ripe, serve for the Food, or Supply, of vast Numbers of People in the Indies, Syria, Africk and Egypt; but what are brough hither, serve only for Physical Uses, being detersive, and something afringent; but allay the Acrimony of the Stomach, strengthen the Factus in the Womb, moderate the Scouring of the Guts, and are cooling in inflammatory Fevers: They are reckon'd, peculiarly serviceable, to destroy all tartarous Mucilage, and other gross Humours that breed Stone, Gout and Rheumatism.

23. Of Palm Oil.

DAlm Oil, or Oil of Senega, is an unctuous Liquor, as thick as Butter, of a Gold-colour'd Yellow, and a Violet, or Orrice Smell, especially when it is New and Right. This Oil is made by Ebullition, or Expression from the Almond or Kernel, from a Fruit that grows by Clusters, of the Size of an Egg, and which bears about a Hundred of them together. The Tree which produces this, is 2 Sort of Palm that grows commonly in Africk, especially at Senega, and in Brafil. The Africans make this Oil after the same Manner as they make Oil of Bays at Calvisson in Languedoc, and it serves 'em to ear, as we do Butter; as to that which is old made, they burn it in Lamps.

Chuse your Palm Oil fresh and new, of a good Smell, and sweet Taste, so that it be as pleasant and grateful as the best fresh Butter we have, and of the highest Colour. The white Colour it acquires by Age, has made some People sancy, that the Palm Oil is white Take care it be not compounded of Wax, Oil Olive, Orrice, Powder and Turmerick, as it happens to some you may meet with where the Merchant, or Buyer, understand how to counterfeit it; but the Cheat is east to detect, because the true Palm Oil lose all its Colour, if it is expos'd to the Air which the Counterfeit Oil will not do; be sides, the true Palm Oil, that becomes white





in Course of Time, will recover its natural Colour, by melting it over a gentle Fire, which happens not to the adulterate Composition. They use this Oil to ease the Gout, and cure cold Humours.

24. Of Cokar-Nuts.

THese are Fruit of various Sizes and Shapes, as represented in the Figures of them, which are engrav'd from the Originals which I have in my Hands: They are proper for several Sorts of Works; as Bowls, Beads, Snuff-Boxes, &c. The only Place in Europe, where they trade most with those Kind of Fruit, is at Dieppe. I shall not stop here to describe the Trees which bear them, but shall only say, that this is a different Sort of Palm-Tree; but as so many Authors have treated of it, I shall add nothing more. The Cokar furnishes the Work-Men with confiderable Bufiness, that deal in Beads and Snuff-Boxes; and the larger Sort is of such vast Use in Africk, Arabia, and several other Parts of the World, that many Millions subsist by Means of it only, producing so many Necessaries of Life, which were I to enter into a Detale of, it wou'd swell this Chapter to too great a Bulk. There is another Sort, but much more scarce, which J. Baubinus calls Nux Indica ad Venena celebrata; sive Coccus Maladiva; the Indian Nut, famous against Poison, or the Maldive Nut, I know no difference of this from the other Cokar, than that it is much longer and sharper pointed; the high Virtues ascrib'd to this, is the Reason why it is so verysc arce and rare.

The Cokar-Nut, describ'd by other Authors, is said to be an Indian Nut, which grows as plentiful, if not more abundantly n the Spanish West-Indies; as New-Spain, Campeche, Bay of Mexico, Cuba, Hispaniola, Suatimale, Jamaica, &c. The Tree ascends lirect and high, having on its Top a Tuft of Palm, like Branches, of a most beautiful Fisure, bringing forth monthly Clusters of very arge Nuts; containing within a very large Kernel, which ears as pleasant as an Almond, with a milky Juice, which is drank for quenching Thirst.

Shell, of which the Turners make Vessels and drinking Cups; some so large as to hold a Quart, three Pints, or more; and the Shell is cover'd with a thick Rind, which being beaten, becomes Hards like Flax or Hemp, of which Cloathing is made, Cords. Ropes, and the like; so that the Cokar-Nut Tree feems to be well provided with all Necessaries for Human Life; as Cloathing, Vessels of Use, Meat, Drink, &c. The milky Water, within the Nut, is pleasant both to quench Thirst, and also to nourish the Body; and by the Heat of Fire, it will thicken into a Jelly, like a Custard made of Cows Milk; otherwise it is an excellent pleasing Liquor, cooling, moistening and sweetning the Juices; for which Reason it is faid to be good against Consumptions and Hectick Fevers, abating all preternatural, and irregular Heats. The Branches of the Trees being cut yield a pleafant Liquor, which being distill'd, gives a strong Aqua-Vitæ: The Kernel, besides its serving for Meat, yields, by Expression, an Oil, which is better than any Oil Olive, not inferior to the best Oil of sweet Almonds; of the Branches they make Houses; of the Trunk their Boats and Ships; of the course Hards, on the Outsides, their Cables; of the finer Stuff, Sails for Ships, and Cloth, as afore-

25. Of the Vomiting Nuts.

THE Vomiting Nuts are round, flat Nuts, of the Size and Pomet. Shape represented in the Figure of Dates; they are of divers Colours; as Yellow, White, Brown, &c. These Nuts, according to the Relation of some Persons. are of the Size of our Rennet Apples, which grow upon a large Plant in several Parts of Egypt, from whence come the Vomiting Nuts we now fell. The best Relation we have of the Growth of them, as well as their Description, is to be met with from Mr. Paul Hermance, Physician and Botanist of Leyden, one of the most able Men of his Age. This Relation of his has a great deal of Analogy, with that I shall here take Notice of, except that he fays that they grow only in the The Kernel is cover'd with a very hard Ine of Ceylan; whereas every Body knows

wife, that there is another Sort of Nux Vo- spiration. mica, which comes from the Isle of Timor, and that the Fruit are not fo big, by three Parts in four, as that of Ceylan; and that the Plant is call'd a Briony Wood: Lignum Colubrinum, is Arboris Timorenfis radix lig-

20 fa. &cc.

They are brought from Egypt, the Levant, East-India, and are generally flat, round, and of the Thickness of a Crown Piece, almost like Lupins, but larger; hollowish on the one Side, and a little bunch'd round; on the contrary, of a greyish Colour, with a Kind of Freeze, or foft Cotton, covering the Whole; but of fo hard and horny a Substance, that it cannot easily be beaten into Powder, but must be grated, or ground in a Horse-Mill: The chiefest Things they are us'd for, is to infatuate Birds, as Crows, Ravens, Pigeons, &c. It is faid it will kill Dogs, Cats, and other Creatures, if it be given mix'd with their Meat: And it is probable, that if it kills not such Creatures as Wolves, Foxes, Tygers, &c. yet poffibly it may so stupisie and disguise them, that they may be the more eafily mafter'd and kill'd by Mankind: It is also mix'd with Paste, and given in a Bait to catch Fish withal; this has been given inwardly, to three or four Grains, for several Intentions, but is much better let alone, fince there are fo many Remedies that may be us'd with less Danger.

Nux Vomica, is a little flat Fruit, Lemery. as round as a Farthing, downy or lanuginous, of a greyish Colour, hard as Horn, of various Colours within; fometimes Yellow, fometimes White, and fometimes Brown: Some People believe this to be the Kernel of a Fruit as large as an Apple, that grows upon a great Plant in feveral Parts of Egypt; but the Truth is, no Body as yet truly knows the Origine of the Vomiting Nut, and that there is nothing to be depended on the Histories concerning it. Chuse such as is large, clean, and new, to be imployed chiefly for intoxicating of Birds and Fish, tho' it is not poisonous if given to Men, but may be us'd in small Quantities, and is reckon'd deterfive, drying, refolutive, being apply'd externally and internally; is Tithymal or Spurge; but the Truth is commended as useful to refift Poison, and scarcely yet known: They are chiefly us'd

they come from several Parts: He says, like- drive away Melancholy and Vapours by Per-

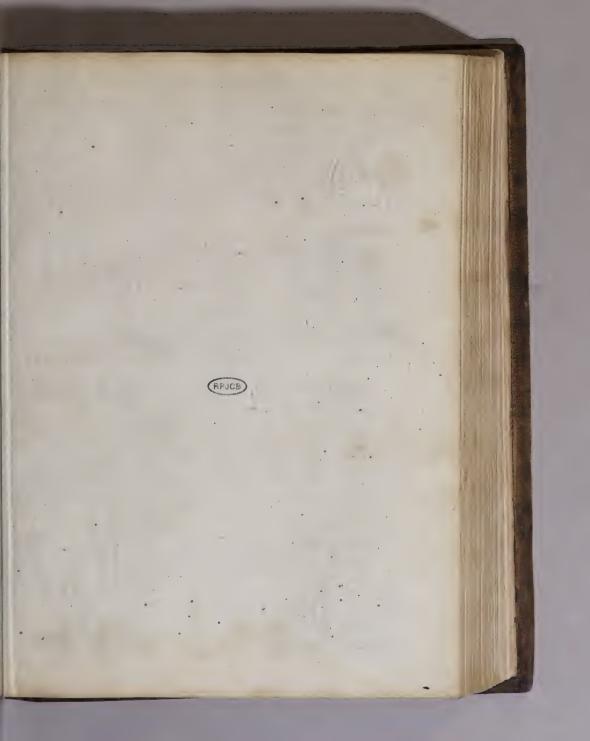
26. Of the Levant Nut or Berry.

Hele Berries which we now fell by the Name of the Levant, Pomet. or Eastern Berry, are a small Fruit of the Size of a good large Bead, halfround, and fomething of the Shape of a Kidney, as you will see represented in the Figure of the Date. These Fruit are of a reddish Colour, and hang to the Plant which bears them, by a little Stalk of the same Colour. In these Fruit are found a little. Kernel, which is divided into feveral Parts, which are very subject to worm-ear; therefore chuse those that are heavy, fresh, the highest colour'd, largest, and least fill'd with Dirt that may be; they are serviceable to de-stroy Vermine, being usually mix'd with

There is, besides, another Fruit call'd the Fagara of Avicenna, which is almost like the Levant Berry, or Coculus Indus, and whose Figure is shown with that of the Date. Lemery fays there are two Sorts of it, the Fagara major, which is as large as a Chich Pea, which is cover'd with a delicate fine Bark, betwixt a black and an ash Colour: The Second is call'd Fagara minor, which is of the Figure and Size of a Cubeb, of a brown Colour, and aromatick Smell, and the Taffe a little bitter and piquant ; both which partake of the Nature of the Cubebs, being good to strengthen the Stomach, assist Dige-

stion, and expell Poison.

Some Authors call the Levant Nut, Lemery. or the Coculus Indus, the Bacca Orientales, which are Berries brought from the East-Indies, as also from Turkey, round, and a little larger than Bay-Berries, hollow within, and of a brownith Colour, or rather of a blackish ash Colour; on the Outfide, having a white Kernel within, and of a hot Taste, drawing Water into the Mouth; and as is reported, grow many together like Ivy-Berries, yet each by itself on a Stalk. Some will have them to grow or a Kind of Night-Shade, others on a Kind of





for Baits to catch Fish withal, or in a Powder to kill Lice and Vermine in Childrens Heads.

27. Of Cassia.

CAffia is a Kind of Fruit of different Lengths and Thicknels, which hangs to the Branches of different Trees: The First and most esteem'd, is that of the Levane. This Caffia grows plemifully in feveral Paris thereof, from whence it is now brought by the Way of Marfeilles, as may be feen by the Figure of the Tree represented in the Cut; the Leaves are Green, and the Flowers Yellow.

Chufé this Caffia fresh, in thick Sticks that are heavy, not laid in of a brown Colour, whose Bark appears fine and white within, and is fupply'd, or furnish'd with a black Pulp, a white, hard Stone or Kernel, in Form of a Heart: This Marrow, or Pulp, ought to be fweer, without being either tharp or multy, and fuch as will eafily separate from the Cane; beware that the Canes be not knotty or crooked, but all of a Piece, and without being subject to shake, or ratthe with the Kernels void of Pulp. Some will have it, that the true Way of diffinguishing of the Levant Cassia, is by the Length of the Sticks; which nevertheless is no general Rule, because those are frequently met with in the Antilles, or Western Mands: But the best Way I have sound, is to take that of Marseilles, because there is none comes that Way, but what comes from the Levant and Egypt.

28. Of Egyptian Cassia.

HE Egyptian Cassia is a Fruit like the Former, only that it is thinner, and a great deal tenderer. The Tree that bears this Caffia grows to a prodigious Size; it is as large as any Tree we have in France, and differs not from the Former, but as the Leaves are much small: They meet with such vast Quantities of these Trees, throughout Egypt, that the Cassia they produce goes for almost nothing at Grand Cairo; one would chuse this as soon as that of the Le- so pulpy, and therefore worth much less than

vant, only that they break the Cases with their Thumbs to get out the Pulp. The Levantines and Egyptians make a Confection of the Cassia, being yet green, which they keep to loosen the Belly, it being a Medicine very convenient, and easie to take. The Cassia Confest ought to be new, and boil'd to the Consistence of a Syrup that is neither eager or musty: Some People preserve it, as the Levantines, to keep the Body open.

29. Of Brasil Cassia.

T grows in Brasil, from the Trees, Leaves, Flowers and Fruit, as in the Figure represented. The Cassia which these Trees produce is fo large, that if I had not feen a Piece in Mr. Tournefort's Hands, of about a Foot and an Half long, and the Thickness of three Fingers, I cou'd not have believed that there was any Cassia so thick: But as this Fruit is of little Use, I must, nevertheless, tell you, that the worst Cassia we use, is that which comes from the American Islands.

20. Of the Island Cassia.

THE Cassia of the Isles is that which at prelent is us'd at Paris, and is a Fruit of the same Nature with the Former, and all the Difference is according to the Places from whence it comes. The Antilles are full of these Trees, so that the Cassia of those Parts costs them nothing but the Trouble of gathering. 'Tis the Profit or Perquifite of the Sea-Men who gather it, and stow it at the Bottom of the Ship amongst other Goods; which is the Reason why it oftentimes comes fo dirry, being full of Gravel and Filth that it gathers from the Ballace of the Ship; however, chuse such as comes nearest to the Fineness and Goodness of the Levant Caffia that you can get.

Scroder says, That which comes from Brafil purges more in one Ounce, than that from Egypt in two; yet that brought from the East-Indies, and by the Levant, is accounted the Best, being brought from Bantam in great Quantities; that from the West-Indies is generally large and thick rinded, and not

Belly, and brings forth the Excrements with- from Egypt and the Antilles; that of the Leout griping, temperate in respect of Heat vant and Egypt, is brought to us by the Way or Cold, and moderately moilt: It is good of Marfeilles, but the others by Dieppe, Refor such as are troubled with Fevers, the chelle, &c. Pleurify, or any Inflammation of the Liver or Spleen, being mix'd with Water, and Drinks of a cooling Nature. It is good to cleanse the Reins and Ureters, to bring forth Gravel and Stone, being a Preservative in those Diseases, if drunk in a Decoction of Cicers, Parsly Roots and Liquorice: It is extracted by forcing the Pulp, taken out of the Cane, through a Sieve, under which is a Veffel of hot Water, that by the Help of the Vapours, the Pulp being stir'd about in the Sieve, it may the easier pass thorow, when hot; and that you ought to extract it but just at the Time of using, because it grows fower with keeping. There are feveral other Extracts, according to the Nature of the Occasion

Cassia fistula Alexandrina; sive Lemery. Purgans, or Canna fiftula, is a Reed or Cane, the Length usually of a Man's Arm, thicker than one's Thumb, and almost round or cylindrick, woody, of a blackish Colour; the Bark is as hard as Wood, composed of two Cods, but equally joyn'd together, which cannot be separated but by breaking their Junctures; the Hollows, or Cells, are divided by thin Partitions, but very hard ones, that are fill'd with a Pulp, or Substance, like Marrow, that is liquid, black, and sweet as Sugar: Each of these Cells contains a thick Seed, like a little Pea, that is flat, and almost round, of a yellow Colour. This Cane is the Fruit of a large thick Tree, which grows in Egypt, the Indies, and several other Parts of the World : The green Leaves much resemble those of the Walnut-Tree; the Flowers grow in Numbers upon one Stalk, compos'd each of five Leaves, dispos'd in a Circle, of a yellow Colour.

When the Flowers are fallen, the Caffia flicks grow out and harden themselves, so that they break one against the other, when the Wind is strong, and make such a Noise, that they may be heard two Leagues round. The best Cuffia is that which comes from the Levant; but it is so dear and scarce in France, especially in War-Time, that we are oblig'd

the East-India: The Pulp gently loosens the to make use, commonly, of such as comes

31. Of Tamarinds.

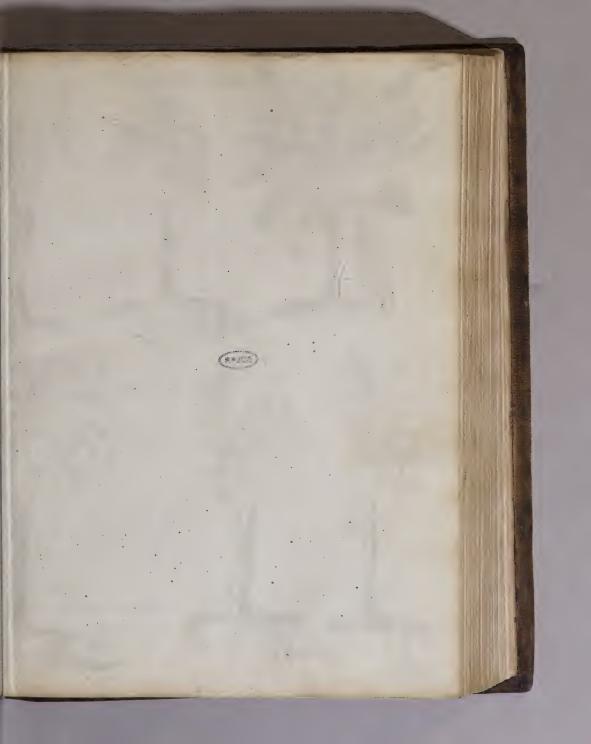
T Amarinds are sharp acrid Fruit, which are brought from the Le- Pomet. vant; sometimes in Bunches, but more commonly freed from their Stalks: The Tree which bears them has very small Leaves; after which come white Flowers, almost like Orange-Flowers, from whence arise Husks that are Green at first, and grow Brown as they ripen, when the Inhabitants of those Parts gather them in Clusters, which they dry a little before they are fent hither.

Chuse your Tamarinds fat or oily, fresh, of a Jet black, and a sharp pleasant Taste, which have not been laid in a Cellar, which may be known by their too great Moisture, and their Smell of the Vault; besides, their Kernels that are blown up: Avoid fuch as are adulterated with Molasses, Sugar and Vinegar; they are much us'd in Medicine, because of their cooling, purgative Qua-

There grows a great many Tamarind Trees at Senega, where the Negroes make the Fruit into Cakes, after they have stoned them, and freed them from their little Stalks, which they make frequent use of to quench their Thirst: These Tamarind Cakes are very scarce in France. They cleanse Tamarinds like Cassia, and with Sugar make a Confection of it, which is not unpleasant. Tamarindi, or Oxyphanica, isa

Fruit about the Length of one's Lemery. Finger, as broad and thick as the Thumb, cover'd with a green Bark at the Beginning, but that grows brown as it ripens, and is so tender that it easily falls off, or leparates; the Fruit affords a black, sowrish, or sharp Pulp that is grateful to the Taste, and that hangs by long Fibres, or woody Strings, form'd in the Nature of a Bunch: They take this Pulp from the Seeds or Pepins, as they do that of Cassia or Lupins.

The Tree which bears the Tamarinds is call'd Tamarindus, by Gerard, Parkinson, Bau-





li; it is as big as an Ash or Cherry-Tree; the Trunk is large, cover'd with a thick, ash-colour'd Bark; the Wood is hard, the Branches furnish'd with a great many Leaves, like those of the Femelle Fern, long as one's Hand, compos'd of several small Leaves, rang'd on the Side, hard, nervous, or stringy and Green, of a pleasant Taste; the Flowers fpringing from Wings of Leaves joyn'd Eight or Ten together, like those of the Orange-Flower, white colour'd, fometimes Prip'd with red Veins; the Roots are long, large and red: This Tree grows in several Parts of India, as Cambaya, Senega, &c. The Leaves are proper for quenching Thirst, and cooling in burning Fevers, being taken in Decoction.

The Indians separate the Tamarinds from the Bark and the Bunch, after having dry'd them a little, as we have 'em now frequently amongst us, hanging one to another. Chuse the Newest that are hard as Paste, pulpy, black, of a sharpish grateful Taste, and vinous Smell; they yield a good deal of acid Salt, Oil and Flegm; are deterfive, gently laxative and astringent; they allay, by their Sharpness, the too great Motion of the Humours, abate feverish Heat, cool and quench Thirst: They are given in continual Fevers and Loosness, being taken in Decoction, Bolus, &c. or a Pulp may be made, as of Cassia, Dose from an Ounce to two; it strengthens the Stomach, creates an Appetite, refifts Vomiting, and cuts tough Flegm; an Extract is made thus: Take Tamarinds, boil them in fair Water, strain, clarifie with the White of an Egg, and thicken by consuming the Water to a due Confistence; Dose from two Drams to half an Ounce: It cools Inflammations of the Stomach and Liver, Reins, Back and seminal Vessels; is good in Catarrhs, Rheums, Eruptions of the Skin, falt and sharp Humours, St. Anthony's Fire, &c.

22. Of Citron Myrobalans.

THE Citron, or yellow Myrobalans, are Fruit which grow in feveral Parts of the Indies, especially about

binus and Raij; or Siliqua Arabica, que Ta- Batacala and Goa, upon Trees whose Leaves marindus, the Arabian Date, which is the are of the Shape represented in the Cut of Tamarind, or Balam Pulli seu Mederam Pul- them. When these Fruit are ripe, they are of the Figure, or Likeness of the Mirabel Plum, enclosing a Stone which yields a Kernel like the white Pine: The Indians candy this Fruit while it is green, as we do Plums, and they serve to loosen, or relax the Bowels. The Portuguese and Dutch bring us this Fruit thus candied for the same Purpose; but the greatest Quantity is brought us dry, which the Apothecaries keep for several Galenical Compositions, after the Stone is broke. Chuse your Citron Myrobalans of a reddish Yellow, long, well fed, heavy, and hard to break, of an aftringent, disagreeable Tafte; and beware of being imposed upon by any of the other four Sorts, to wit, the Indian, Chebulick, Emblick, or Bellerick.

33. Of Indian Myrobalans.

THE Indian Myrobalans are small long Fruit, of the Size of a Child's Finger End, black without and within, without Stone, and very hard, that are brought from the East-Indies, where they grow in great Quantities, and from whence they take their Name: The Tree which bears these has Leaves like a Willow, after which come Fruit of the Size and Shape of a Spanish Olive, which are green at the Beginning, and grow browner as they ripen, and blacken in drying; as we have 'em now brought to us, they are hard, and black as Ebony: Chuse those that are well fed, dry, black, of a sharpish astringent Taste, and the heaviest you can ger.

34. Of Chebulick Myrobalans.

THE Chebulick Mirobalans, or those call'd Quibus, are Fruit very like the Citrons except that they are bigger, blacker, and longer. The Tree which bears them is as high as an Apple-Tree, and has Leaves like, the Peach, with Star Flowers of a reddiffi Colour: These Sorts of Trees are to be met with about Decan, or Rengal, where they grow without Culture : Chuse these Myrobalans fleshy, the least wrinkled and black,

that is possible, such as are refinous within, call'd Myrobalani Citrini; the Second, Myroof a brown Colour, that has an aftringent Tafte, and also a little Bitterness.

25. Of Bellerick Myrobalans.

HE Bellerick Myrobalans are small Fruit of the Bigness of a Nutmeg, a reddish Yellow without, and yellowish within, in which is found a Stone supply'd with a Kernel of no Virtue: The Tree which bears this is large, and the Leaves like those of the Bay-Tree; the Fruit is found hanging to the Branches, in Shape of little Goards, of a vellow Colour : 'tis of little Moment to direct you to the Choice of them, fince they are good for little or nothing.

36. Of the Emblick Myrobalans.

THE Emblick Myrobalans are blackish Fruit, of the Bignels of Galls, easie to divide into Quarters, for which Reafon almost all we have brought are after this Manner. The Tree that bears them are as high as the Palm, and the Leaves are almost like the Fern: Chuse such as are least fill'd with their Stones and other Trash, which they are very subject to be; but on the contrary the most fleshy, and blackest you can meet with. The Indians do not use the Emblick Myrobalans, either to candy, when green as the others, or break for their Kernels; but they imploy them to dye Skins, as the Leather-Dreffers do Sumach, and also to make Ink. Some hold that all the Myrobalans grow upon one and the same Kind of Tree, which is far from Truth, as I have shown, for some of 'em grow fifty or fixty Leagues from one another. The Citron Myrobalans, which the Indians call Arare, purge Bile: The Indian, which those People call Rezanuale, and Belleris Govin, purge Melancholy: The Emblick, call'd Annual by the Indians, and the Chebulick Areca, purge Flegm; befides, these five Species of Myrobalans us'd fometimes in Pharmacy, call'd the Areca.

Myrobalani, or Myrobalanes, are Lemery. a Fruit the thickness of a Prune, which is brought to us from India dry; there are five Kinds of it; the First make Ink with them.

balani Indici; the Third, Chebuli; the Fourth, Emblici ; the Fifth, Bellerici. The Citron, or yellow Sort, are small, oblong, or oval, the Size of an Olive, or little bigger, rais'd on several Sides, containing each a longish Stone; they grow upon a Tree refembling a Prune or Plum, but that bears Leaves like a Service Tree; it grows without Management or Care, in India, and particularly near Goa. This Kind of Myrebalan is the most as'd of all the Sorts in Physick : it ought to be chosen fleshy, heavy, hard, of a reddish, yellow Colour, and an unpleasant aftringent Tafte.

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Myrobalani Indici five Nigri, five Damafeori; the Indian, or black Myrobalans, are oblong Fruit, the Size of a small Acorn, rough and ridged, Lengthways, of four or five Sides, very hard, hollow within, and void of a Stone; they grow upon a Tree, whose Leaves are like those of the Willow.

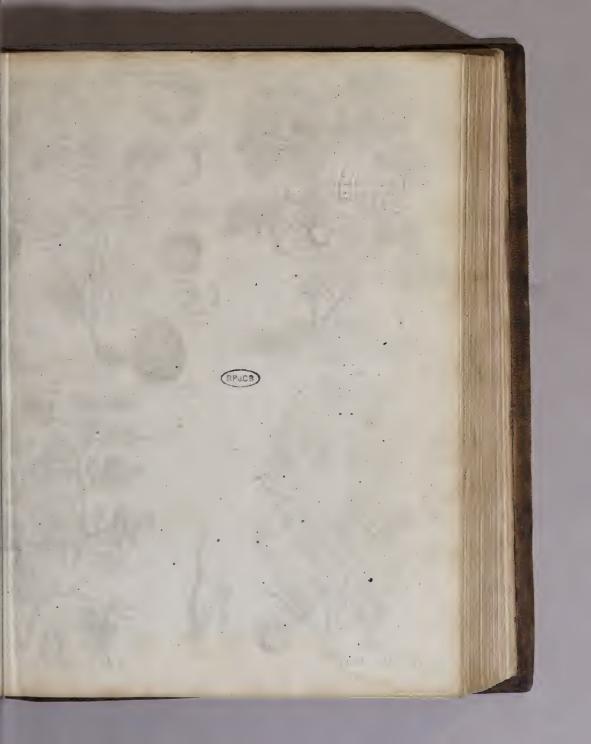
&c. as describ'd in Pomet.

Myrobalani Chebuli, Quebuli, Chepuli, Cepuli, or Chebulick Myrobalans, are Fruit like Dates, oblong and sharp, or pointed at that End, which bends to the Tree, having five Corners or Ridges, of a yellowith, Brown Colour; they grow upon a large Tree like a Plum-Tree, that grows in India without Culture; the Leaves are like those of the Peach-Tree, the Flowers form'd Starwife, of a Colour rending to red: Make Choice of large, fleshy, hard Myrobalans, of a dark yellow Colour, and an aftringent Tafte, in-

clining to bitter.

Myrobalani Emblici, Embelyi, Emblegi, Ambegi, Defeni, or Emblick Myrobalans, are a Fruit that are almost round, and about the Size of a Gall Nut, rough on the Outfide, and ridg'd on the fix Sides, of a dark brown Colour; containing each a thick Nut. like a Filbert, rais'd on fix Corners, of a yellow Colour; the Fruit grows upon a Tree the Height of the Palm, having long Leaves cut small, and indented very like the Fern; we have thele brought to us cut in Quarters, separated from the Stone and dryed: You ought to chuse them clean, without Shells, blackish without, grey within; of an aftringent Tafte, attended with a little Sharpness: The Indians dye Skins, and

Myro-





Bellerick Myrobalans, are Fruit of the Size of the common Sort, oval, or almost round, hard, Yellow, more united, and less angular or corner'd than the others, containing each an oblong Stone or Nut, as large as an Olive; the Stone encloses a little Kernel; The Tree that bears this has Leaves like the Bay, and as big as a Plum-Tree. All these Sorts of Fruit yield a great deal of effential Salt, and Oil, a moderate Quantity of Earth and Flegm: They are all gently purgative and aftringent, something like Rubarb; but the Citron Kind are esteem'd more particularly for purging the bilious Humours; the Indian the Melancholy, and the others for the Serous or Flegmatick: They may be given from fix Drams to double the Quantity, either in Pills, a Decoction in Wine, or an Excract made of the pulpy Part, by fteeping them in Wine, then ftraining out the Infufion, and inspiffating, or thickning to a Confistence.

37. Of the Areca.

Pomer. THE Arcca is a Fruit whereof there are two Sorts; to wit, one that is half round, and the other pyramidal: These small Fruit resemble one another entirely; especially within, they are like a broken Nutmeg, and are brought to us from several Parts of India; but as we trade in them no otherwise than as a great Rarity, I shall not trouble you further about them, only that the Tree, bearing the Arcca, is from a Branch of the Peppers already describe'd.

Arece Palme Species, Scalig. A-Lemery. rece five Fanfel Cluf. in Garz, Ludg. Palma cûjus fructus feffilis Fanfel dicitur. Avellana indica. The Palm, whofe Bruit is call'd Fanfel, or the Indian Filbert, is a Species of the Palm Tree, very high and straight, that grows in Malabar, and several other Parts of India; the Flowers are small, white and almost without Smell; the Fruit is of an oval Figure, the Size of a Nut, having a green Bark or Peel, at First, which becomes very yellow as it ripens, soft and very hairy; the Bark or Rind being taken away, there appears a Fruit the Size of a

Myrobalani Bellevici, Bellevezi, Bellevez, or Filbert, fometimes half round, fometimes ellerick Myrobalans, are Fruit of the Size piramidal; which, being broken, refemble common Sort, oval, or almost round, bles that of a Nutmeg in Fineness.

The Fruit which the Indians call Chofool, not being as yet half ripe, makes those that eat it giddy and drunk: When ripe it is infipid and aftringent; they reduce it to Powder after having dry'd it in the Sun, and having mix'd it with Betle, burnt Oyster-Shells, Camphore, Aloes Wood, and a little Ambergrise; they form 'em into Troches, which they chew in their Mouths to make 'em spit and purge the Head.

28. Of Coloquintida.

Coloquintida is a Fruit of the Size of our Rennet Apple, that grows Pomet. upon a climbing or viny Plant, that has green Leaves, very like those of the Cucumber. This Fruit being upon its Stalk, is of the Colour of the Callebash, and grows plentifully in several Parts of the Levant, from whence they are brought to us, freed from the fifth Skin, or outward Shell, which is Yellow.

Chuse the finest white Coloquintida Apples, that are light, round, and as little soul and broken as may be. Those who have their Coloquintida from Marseilles, or other Parts, order their Correspondents, if they wou'd serve them well, to take care that the Apples be not broken, and the Pepin, or Seed, shak'd out; tho' out of an hundred Weight of Coloquintida, they shall not find Forty sit for Use, because of the gross Part, and the Seeds which ought to be thrown away.

Coloquintida is one of the bitterest and most purgative Drugg in Physick; therefore it ought not to be us'd, but with great Precaution, and especially not without throwing away the Seeds. The Confectioners cover these Seeds with Sugar, and sell them to patch or delude Children with, and People of Quality upon extraordinary Occasions; but the Apothecaries keep these by them to powder, and put into their purgaing Compositions, especially the common Lenitive Electuary, which is a great Abuse, and a very wicked Practice.

Lemery. rotundo minor, vel Cucurbita Sylvestris Skin, very fine and thin, and a small Shell fructu rotundo minor: The leffer Coloquintida with the round Fruit, or the lef- that it will break eafily. These small Fruit fer wild Gourd, with the round Fruit; is an grow in a Husk, or triangular Shell, where Indian Plant which bears several Stalks that creep upon the Ground, hairy and rough; the Leaves grow fingly ty'd to long Stalks, running one from another, large, indented, hairy, rough and whitish, especially on the Outfide, mark'd with several white Spots; the Flowers are of a pale Yellow, succeeded by a Fruit about the Size of a moderate Orange, almost round, naturally pretty dry and light, cover'd with a hard Bark, or entire Shell, that is of a yellowish, shining Green. The Indians separate, or pull off this Bark, and having dyed it within, that is, the fleshy Part of the Fruit, they bring these Apples of different Sizes, white, spungy, light, and of an intolerable Bitterness, which is what we call Colocynthis Officinarum, or the Coloquintida of the Shops; there are several Cells or Appartments fill'd with large Seeds, as those of Melon, but shorter, more fleshy, and a great deal harder, of a yellowish Colour, inclining to white: They cultivate this Plant in Several Parts of the Levant.

Chuse such as are fine, large, white Apples, fleshy, well dry'd, light, that will easily break, and are very bitter; they yield a great deal of Oil, together with volatile and essential Salt. The Coloquintida, separated from the Seeds, is call'd Pulp of Coloquintida, and is often us'd in Physick; it purges violently by Stool, is proper to evacuate the serous Humours of the more gross Parts of the Body, and is recommended in the Epilepsie, Apoplexy, Lethergy, Small-Pox, overflowing of the Gall, Sciatica and Rheumatism; but ought never to be administred alone, but us'd in Compositions, as Pills, Confections, Troches, and the like.

39. Of Indian Pine Kernels.

white Colour the Size of a Pea, but much First are Kernels of the Size and Shape of longer; of a disagreeable Taste, attended the Filbert, extremely white, and are cowith a great Acrimony. These little Kernels ver'd with a hard Shell of different Co-

Colocynthis, vel Colocynthis fructu are cover'd each with a Pellicle, or white that is hard, but not very thick, which makes there are very often three Kernels together. The Plant that bears this Fruit is call'd, in Mr. Hermans Paradisus Batavus, Ricinus arbor fructu glabro granatiglia Officinis dicta : which fignifies the Ricinus, or a Kind of Vervain Tree, with the smooth Fruit call'd in the Shops, Tyle Seed, or Tilli-Berries; the Figure of the Plant, the Leaves and Flowers are unknown to me; nevertheless, I believe it is this Plant, as here represented, that bears the Indian Nuts, which ought to be chosen fresh, plump and fleshy; the least fill'd with Husks, Shells, or other Filth and Dirt that can be. Take care that they be the true Nuts, and that the Palma Christi be not impos'd upon you in their Stead, which is difficult enough to diftinguish, when the Palma Christi is not speckled; for which it is so, you can scarce be deceived, otherwise when it carries the Colour of the Indian Nut. 'tis not easie to know the Difference.

The Use of these Nuts, or the Kernels of 'em, is to purge; and it is, indeed, one of the greatest Purgatives we have, which makes it that we ought not to meddle with them, but with great Care and Precaution, not venturing to administer them but to strong robust Bodies: As to the Quantity, one may take One, Two, or Three, according to the Constitution of the Person. Some affirm that it is nothing but the thin Membrane, or Skin, that covers the Kernel, which gives it the purgative Quality, which I can affure

you is not fo.

There are other Indian Pine Kernels, which we call, improperly, little Pine Kernels; besides, we sell another Sort, call'd Barbary Pine Kernels, large Indian, or American Pine Kernels; and are those Sorts which Baubinus calls Ricinus Americanus, femine Nigro; the American Pine with the black Seed.

Besides these, there are two Sorts of In-THE Indian Pine Kernels are dian Pine-Nuts which we do not trade in at little Almonds of a yellowish all, by Reason of their great Scarcity: The

lours;

Figure; the Plant which produces them being call'd Ricinus fructu Maximo, or the Ri-

cinus, with the large Fruit.

the Bigness of a Pin's Head, spotted a little, as the Palma Christi, which grow three together, in a little three-corner'd Pod, of the Size of a Pea: These little Pods, or Shells. differ from the other Sort, in that about the Shell and the Husk there are five little hairy greenish Leaves, which altogether refemble the Figure taken from them. The Plant Leaves which these small Pine Kernels have, are exactly like those of Dittany, only that these are greenish, and those of Dittany are whitish. These little Fruits are extreamly scarce, and the Plant that bears them is call'd Ricinus Indicus frudu minimo, the Indian Pine with the least Kernel. As for the Palma Christi, the Great and the Small, together with the Spurge Berry, I shall say nothing, because many Authors have treated of 'em: and the rather, because honest People will have nothing to do with them.

40. Of the white Pine Kernels.

These are a white Sort of little longish Almonds, that are round on one Side. of a sweet Taste, to which they give the Name of sweet Pine Kernels. These small Almonds are cover'd with a thin Pellicle, or Skin, that is light, reddish, and has a very strong Nut. These Nuts, supply'd with Almonds, are found in the Pine Apples, and are call'd, according to their Subject, Pine-Nuts, Pine-Kernels, or Almonds from the Pine Fruit: Those we now sell come from Catalonia, as likewise Provence France. To get the Kernels from the Pine-Apples, they are thrown into a hot Oven, of a sweet Taste; in a Word, which neither and may be given from one Grain to six. mell of Oil or Mustiness: They are much

lours; to wit, grey and reddish; these grow us'd, especially in Lent, to make several three together in a Shell, of a triangular Sorts of Ragoos: The Confectioners cover them with Sugar, after having stoved them sometime to take out the Oil: They make an Oil of 'em by Expression, which has the The second Sort are little long Kernels, of same Virtues with Oil of sweet Almonds. especially when the Kernels are fresh and new: They are sometimes us'd to feed Canary Birds; and a Paste made of the Powder after the Oil is press'd from them, is good to wash the Hands with.

> Ricinus Vulgaris, according to Baubinus and Tournefore, or Ca- Lemery. taputia major Vulgaris, the common

Ricinus, or greater Spurge, is a Plant that has the Refemblance of a small Tree, whose Stalk rifes fix or feven Foot high, thick, woody, hollow within like a Reed, branching at the Top, of a dark, purple Colour, cover'd with a white Powder like Meal: the Leaves are in the Beginning round, but as they grow bigger they become corner'd, and divided like the Fig-Leaf, but much larger and foft to the Touch: The Flowers are so many pale Stamina, Threads, or Chives, which do not last long, and which leave nothing after them, either of Seed or Berry: These Fruit growing separately, upon the same Stalk, dispos'd in the Nature of a Bunch, that is prickly and rough to the Hand: Each of these Fruit has three Sides, and is made up of three Capfulæ or Coverings, which contain each an Oval, or oblong Seed; pretty thick, of a livid Colour, spotted without, and fill'd with a white tender Pith: When the Fruit is full ripe it is full of Chinks, or Cracks, by which the Seed rushes out with force : the Root is long, thick, hard, white and stringy: They cultivate this Plant in Gardens, not only for its Beauty, but because it drives away the Moles; it grows of difand Languedoc, and several other Parts of ferent Sizes and Height, according to the Places wherein it is let; for in Spain one may see them of the Height of a Man; and where the Heat obliges them to open; af- in Candia there are others that grow to the erwards they break the Nuts, and take Bulk of large Trees, provided there be rom thence the Kernels, which are fent into Poles for them to mount on: The Ricini, or lifferent Parts of the World: Chuse 'em Tyle-Berries, are us'd in Medicine, and white, the largest and least mix'd with Shells contain in them Plenty of Oil and Salt; and Skins that you can get, and which are they purge violently all forts of Humours,

There is an Oil made of them by Expres- usually, less bigh than the cultivated, but sion, after they have been well bear, call'd sometimes it attains to the same Height and in Latin, Oleum de Kerva, Oleum Cicinum, Oleum ficus Infernalis: It purges only by rubbing the Stomach and Belly with it: It and narrow; the Fruit much smaller than kills the Worms, cures the Itch, Deterges, old Ulcers, and allays the Suffocation of the Womb. These Berries are brought from America, and are call'd, in Latin, Grana Tiglia, Tyle-Berries, or Indian Pine Kernels; because, in Shape and Size, they resemble the Pine Kernels, which are larger than these, grow in a Shell like them, but are not thorny. There are feveral Sorts of Pine Kernels, from the several Sorts of Pines, which produce them; of which I shall give you an Account of four; one whereof is cultivated, and the other Three wild.

The cultivated Pine is call'd Pinus, or Pinus Sativa, vel Domestica, by Bauhinus, Raius, Tournefort and Gerard: The Trunk of but they are scaly, form'd pyramidally like which is large, upright and tall; naked, or bare at the Bottom, and full of Branches woody: this Plant grows in mountainous. at the Top, cover'd with a rough, reddish and stony Ground; as about the Alps, and Bark; the Wood is firm, strong, yellowish among other Rocks.

The fourth Sort is call'd Pinus Sylvestris order; the Leaves grow two and two, long, and small like Threads; hard, durable, and constantly green; pointed or prickly at their Tops; furrounded at the Bottom with a membranous Sheath. The Husks or Shells, are of several membranous Foldings, which contain two Cells, fill'd with nothing but a light Dust; these Husks leave no Fruit behind them, growing upon the same Stalks with the Leaves, and begin by a Button, which arrives to be a large scaly Apple, al- tainous Parts, near the Sea. most round, or pyramidal, of a reddish Colour: These Scales which form it are hard, woody, thicker commonly at the Point, or Top, than at the Bottom; hollow lengthwife, with two Cavities, each of which contains a hard Shell, or oblong Nut, cover'd, or edg'd with a thin, light, reddish Rind; they call these, in Latin, Strobili, seu Pinei, seu Nuces pinea, or Pine Nuts, which enclose in each an oblong Kernel, half round, white, fweet to the Tafte, and render.

The fecond Sort is call'd Pinus Sylvestris, by Raius, &c. or Pinus Sylvesiris vulgaris Genevensis, by Baubinus and Tournefort, the common wild Geneva Pine; this grows,

Size, its Trunk more frequently straight, but is fometimes crooked; the Leaves are long the First, more refinous, and falls easily when ripe: This Tree grows in mountainous and rocky Places.

The third Sort is call'd Pinus Sylvestris. Mugo, five Crein, or Pinaster Austriacus, the Austrian wild Pine, being a diminutive Pine, which grows not above the Height of a Man; it divides it self from the Root into several large Branches, that are flexible and pliant, spreading wide, cover'd with a thick, rough Bark; the Leaves are of the same Form, and dispos'd like the cultivated Pine. but much shorter, thicker, fleshy, less sharp, at their Ends, and greener: The Fruit are not so big as those of the Larix, or Cyprus, other Pine-Apples; the Root is thick and

Maritima, conis firmiter ramis adhærentibus, by Bauhinus, Ray and Tournefort, or Pinus Sylvestris altera Maritima, the wild Sea Pine: This is a small Tree, whose Wood is white, ftrong scented and refinous; the Leaves are like those of other Pines; the Fruit are in Pairs, and shap'd like those of the cultivated Pine, but a great deal less, being ty'd strongly to the Branch, by their woody Stalks: This Plant grows in moun-

All the Pines that grow in the hor Countries yield Plenty of Rosin, by Incisions made in their Bark; they afford Abundance of Oil and effential Salt: The Bark and Leaves of the Pine are aftringent and deficcative. We have Pine Kernels from Catalonia, Languedoc and Provence, which are taken from the Pine Apples, as taught by Pomet: Chuse such as are new, plump, clean and white, that have a good sweet Taste; they contain a great deal of Oil, and some Salt; are pectoral, restorative, fweeten and correct the Acrimony of Humours, increase Urine and Seed, cleanse Ulcers of the Kidneys, resolve, attenuate, and mollify; and may be us'd internally and ex-AL. Of ternally.

41. Of the White Ben Kernel.

THE white Ben is a triangular Fruit of different Colours, the Size of a Hazel Nut, being white or greyish, in which is found a white Almond, of a fweet Talte, disagreeable enough. The Tree which bears the Ben is very scarce in Europe, and the Impression I have here given you, is taken from that which is at Rome, in the

Garden of Cardinal Farnese.

Chuse such Kernels as are white, fresh, and the heaviest you can get; they are of no other Use, that I know of, but to make Oil of, which has a great many good Qualities; the First is, that it has neither Taste or Smell, and never grows rank, which makes it of great Use to the Perfumers and others, for preserving the Scents of Flowers, as Jasmine, Oranges, Tuberose, and the like: With this Oil it is they make all their sweet Essences, adding to the Flowers aforenamed, as they fancy, Ambergrise, Musk, Civer, Benjamin, Storax, Balfam of Peru, &c: They grow in Syria, Arabia, Æthopia and India, where they come to perfection, which they scarcely ever do in

The whole Nut is of a purging Quality, and the dry pressing, or Powder, after the Oil is taken our, is of a cleansing Nature, and drying; the Shells, or Husks, bind extreamly: The Kernels bruifed, and drunk with a little Ale, purge the Body from gross and thin Flegm: The Oil, which is drawn out of the Nut, does the same; provokes Vomiting, and cleanfes the Stomach of much foul Matter gather'd therein; but the Nut itself, in its gross Body, does much more trouble the Stomach, unless it be roafted at the Fire, for then they lose much of heir emetick Quality, and only purge lownwards; and they are given in Clysters, with very good Effect, to cleanse the Bowels, nd cure the Colick. The Kernels, taken n Posset-Drink to a Dram, mollisse the Hardness of the Liver and Spleen: The Oil, resides its excellent Use to the Persumers, s imploy'd by the Glovers and Skinners, to reserve their Leather from Spots or Stains,

perfum'd with Oil of Almonds do. It more eafily extracts, and longer retains the Perfume of any Thing infus'd in it, than any other Oil whatsoever; being drop'd into the Ears it helps the Noise in them, and Deafness also: The Kernel used with Vinegar and Nitre, is good against the Itch, Leproly, running Sores, Scabs, Pimples, and other Defedations of the Skin; mix'd with Meal of Orobus, and apply'd Plaisterwise to the Side, it helps the Spleen, and easies the Gout, and Nerves which are pain'd with Cramps, Spasms, Colds and Bruises; mix'd with Honey, it disolves Nodes, Tophes, Knots, and hard Tumours.

Ben Parvum vel Balanus Myrepsica, Lemery. Pharagon incolis ad montem Sinai,

or Granum Ben; the Ben Berry is a Fruit like a Hazle-Nut, oblong, triangular, or rais'd with three Corners, cover'd with a Rind, or thin Scale, pretty tender, and of a grey or white Colour; within the Bark or Rind is a white, oily Almond, of a sweetish Taste: the Fruit grows upon a certain Tree in Æthiopia, resembling the Tamarisk; chuse fuch as is new, large, and well fed; of which there is an Oil made as of Almonds, by Expression, call'd Oleum Balaninum, and which has this particular Quality, not to grow rancid with keeping. The Ben purges upwards and downwards all bilious and pituitous Humours, given from half a Dram to a Dram and half; externally it is deterfive, resolutive and drying.

Besides this, there is another Species of Ben, that is much larger than what I have been speaking of; it is call'd by Monard, in his History of Druggs, Ben Magnum, seu Avellana purgatrix, the Great Ben, or purging Filbert: It grows in America, and is brought sometimes from St. Domingo, but is very scarce in France; it purges upwards and downwards; the Indians use it for the Wind-Colick; the Dose from half a Dram to a Dram; they weaken its

force by roasting of it.

42. Of Pistachia Nuts.

THE Pistachia is a Fruit of the Size and Shape of a green Al- Pomet. or from ever growing mouldy, as those mond, which we bring from seve-

especially about a Town call'd Malaver: sweet agreeable Taste. They are Pectoral. The Tree which bears them is much of Aperitive, Moistening, Restorative, fortifie the Height of a young Nut-Tree, and the the Stomach and procure an Appetite: The Leaves almost round; after which comes ripe Nut in Substance is freely and liberally Fruit in Clusters, very beautiful to look up- eaten by People of Quality, as well to graon, being green mix'd with Red; under tify the Palate as for any Physical ules. the Skin or Husk is found a hard white Shell, which contains a Kernel or Almond, of a green Colour, mix'd with Red on the outfide and Green within; of a sweet pleafant Taste. Chuse your Pistachia's in the Shell, very heavy and full; in thort, so that three Pound weight of them in the Shell may yield a Pound when broken, that is a Pound of Almond.

As to the broken Pistachia's, chuse the newest, that are red without and green within, and the least bruis'd that can be: As to their Size, some esteem the largest and others the small, especially the Confectioner, when he is to use them for Candying over with Sugar, in order to make what they call Pistachia Comfits. They are very little us'd in Physick, except that sometimes they put 'em into some Galenical Compositions, being a proper Restorative in old Age. They make an Oil of the Pistachia, but it is of so little Use, I shall say nothing of it.

Pistacia, Phistacia, Fistici or the Lemery. Pistachia, is a Fruit of the Shape and Bigness of the green Almond, which is brought from Persia, Arabia, Syria and the Indies; they grow in Clusters upon a Kind of Turpentine or Fir-Tree, call'd Terebinthus Indica, by Theophrastus, or the Pistachia of Dioscorides by Tournefort, &c. and by Parkinson, Nux Pistacia. This Tree bears Leaves made like the common Fir, but larger, and are fibrous or ftringy, and sometimes divided at the End and sometimes pointed, ranged feveral upon a long Rib, terminated by a fingle Leaf. The Flowers are dispos'd in Bunches, in which are fix'd at the Bottom, resemble the Peach Leaves, and are hardly Chives or Threads, which rife to the top to be diftinguish'd from them when pluck'd of the Flower of a purple Colour: These from the Trees, except that they are tougher leave no Fruit behind them; the Fruit grow- or more pliant; the Flower is also very ing upon Stalks that bear no Flowers at all.

The Pistachia has two Barks or Rinds, the First is tender, of a greenish Colour, mix'd with red; the Second is hard as greenish Husk that is fleshy; it contains with Wood, white and brittle, they enclose a in it an oblong flat Almond, which all the Kernel of a green Colour mix'd with red World knows. There are two Kinds of Al

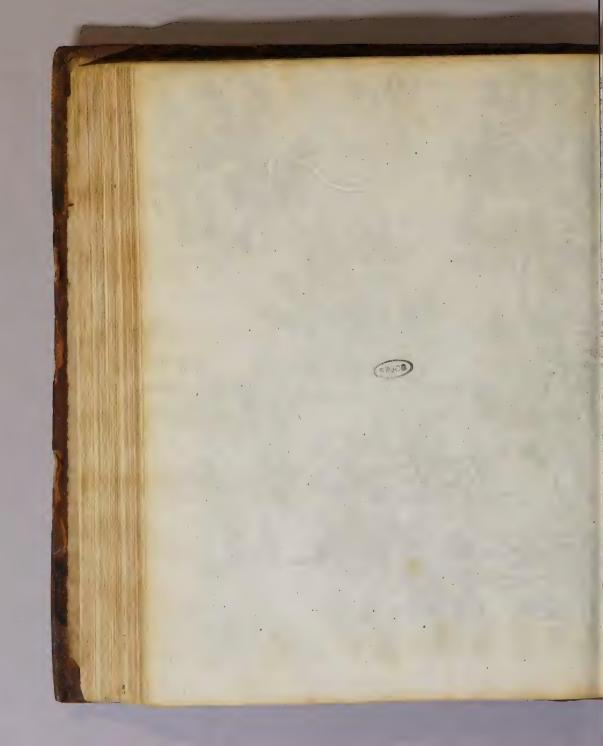
ral Parts of Persia, and other Places in Asia, on the out-fide and green within, of a

43. Of Almonds.

ME usually sell two Sorts of Almonds, to wit, the Sweet and Pomet. the Bitter; the Trees which produce these are so common, I did not think it proper to give any Description of them, contenting my felf only to fay that both Sorts of Almonds come from several Parts; as Provence, Languedoc, Barbary, and Chinon in Touraine; but the most valued of all, are those that grow about Avignon, because they are usually large, of a high Colour, that is to fay, reddish without and white within, of a sweet pleasant Taste, which is contrary to those of Chinon and Barbary, that are small and half round. As to the Use of the Sweet Almond it is so confiderable, and so well known throughout the World, it wou'd be needless to mention it; I shall only treat of the Oil, as being a Commodity of great Consequence considering the vast Consumption that is made of it. There are some of the Sweet Almonds fold in the Shell, the Best of which are reckon'd those that break eafily under the Thumb. These are of scarce any other Use than to furnish Gentlemens Tables as part of the Desert.

Amygdala, or the Almond, is the Fruit of a Tree, call'd in Latin Lemery. Amygdalus, or the Almond-Tree, which is cultivated in our Gardens. The Leaves are long, narrow, and ending in a sharp Point, of a bitter grateful Taste, they like that of the Peach, but much whiter and less Purgative; it is succeeded by a hard woody Fruit oblong, cover'd with a hairy





or the Sweet, are pleasant to eat, of good Nourishment and proper against Lasks and the Bloody-Flux, they are Pectoral and Opening, good against Coughs, Cold, Asthma's and Confumptions: An Emulsion or Milk made of them with Barley-Water, is a good Drink in Fevers, Diarrhea's and Dysenteries. The Virtues of the Oil will be mentioned under that Head.

44. Of Oil of Sweet Almonds.

Pomet. OIL of Sweet Almonds is prepar'd several Ways; Some do it by Blanching, and others by Pounding, fome reduce 'em into a Paste, by beating the Almonds, some only bruise them and so fift them. In short, some use good Almonds, and others bad Ones, and every one according to his Capacity and his Conscience, but the Method of expressing the Oil is so commonly known that it wou'd be trifling to pretend to give any Account of it, at this time of Day; only to inform you that there are two Sorts, the one drawn by the Fire, and the other without, which is call'd the Colddrawn Oil, and is only proper for internal Use, the Hot being subject in a short time to grow rank and stinking. After the same manner Oil of Bitter Almonds is made, chiefly for External Use; as likewise Oil of Walnuts, Hazel-Nuts, Ben, white Pine-Kernels, and of the larger Sort call'd Oil of the Infernal Fig, which is much us'd by the Savages to kill Vermine; as also, a cold Oil is drawn from White-Poppy Seeds, the four cold Seeds, Linseed, and the like, by way of Expression. As to the Way of chusing all these Sorts of Oils, the best Advice I can give you is to deal with honest People that are above putting a little Cheat upon you, and not to deal with Hawkers, nor run from Shop to Shop, but give a Price for that which is good in its Kind.

Besides the Oil, there are Mackaroon's made by the Confectioners out of the Almonds blanch'd and beat up to a Paste with Sugar, &c. The Almond-Paste which remains after the Expression of the Oil serves the Perfumers to fell for scouring the Hands clean, and making the Skin smooth. The dre, or the Essential Oil; the First and most

monds, [as faid by Pomet]; the First whereof, gainst Roughness and Soreness of the Breast and Stomach, Pleurifies, Coughs, Afthma's, Wheefings, Stitches, Hectick Fevers, Ulcers in the Kidneys, Bladder, Womb, and Guts, and helps Scalding of Urine. Oil of Bitter Almonds helps Deafnels if dropt into the Ears, as also Pains and Noise therein; Outwardly it softens hard Nerves, takes away Spots in the Skin, and brings down the great Bellies of Children. Oil of Bitter Almonds given inwardly with Manna and Sugar-candy is good against Cholick and Stone, Gripes in Children, Dry Coughs, and for Women in Labour: Some fay that the Oil of Sweet and Bitter Almonds both may be preserv'd from being rank, by the Help of Spirit of Wine tartariz'd.

45. Of Citrons.

HE Citrons both the sweet and foure, are Fruit fo common Pomet. and so well known in most Parts of the World, that I shall pass by their Description, and content my felf to fay that what we fell come from St. Remmes about Genoa, Nice and Manton, a little Village belonging to the Duke of Savoy, from whence they are brought by Sea and Land to Marseilles, Lyons, Rouen and Paris. The Sale of Citrons is not made in the Cities aforesaid, except Nice, but by the Determination of the Council of the Place, which happens twice a Year, that is to fay, in May and September: fometimes three Times a Year, according as the Crop or Harvest is considerable. When the Sale is over, and that some Merchants wou'd have only the Choice, they throw by fuch as will pass thorow an Iron Ring made round, for that Purpole, for all that go thorow only serve to make into Juice, which they transport to Avignon and Lyons, for the Dyers in Grain. As to the Choice of fweet or foure Citrons, the Commodity is too well known to need any Direction.

46. Of Oil of Citron.

WE fell two Sorts of Citron Oil, to wie, the Common, and the Essence of Ca-Oil by Expression new drawn, is good as valued is that which bears the Name as Ways, either by the Zest or the rasping or and of a lively yellow Colour, that have a grating of the Citron-peel fresh : Or else by fragrant Smell are best; if the Colour and an Alembick and Water they draw a white Smell be decay'd, they are not of much vaodoriferous Oil, altogether like the Oil of Sweet Almonds, but that it is not so gross and fat. The second Sort is the common Oil sterick, and Alexipharmack, good against all of Citrons, which is greenish, clear, and fra- cold and moist Diseases of the Head and grant, and is made by the Alembick, with the Lee or Settlings that is found in the Bottom of the Cask, wherein juice of Citrons seases; Measles, Small Pox, Plague, Surhas been kept, fifty Pounds whereof will afford three Pounds of clear Oil, more or less, according to the Goodness and Newness of the Citrons. These Oils are us'd by the Perfumers, because of their agreeable Smell, especially the Essential Oil. As to the soure Bourgamot, 'tis a Juice made from a certain Kind of half-ripe Citrons that come from Bourgaire near St. Remmes, from whence it is carry'd into several Parts. The Use of it is likewise for the Persumers, and several other Persons that have Occasion for them-

47. Of Candy'd Citron.

ME have small Citrons brought from the Maderas of different Sizes, candied two Sorts of Ways, to wit, Dry and Liquid: The Dry are very pleasant to eat, which when they are well done are tender, green and new. There is another Sort besides this, that comes from the Maderas, candied Dry, the best of which is the freshest, in little Quarters, clear and transparent, very green on the Outfide, and the most frosted with the Candy within that can be, very fleshy, Spots, which happens not to it but by Moisture, which it gets by Age.

The Citron-Peel is much us'd, because it is excellent to eat; there is besides such as we call Chips, that are cut into little Slices or Pieces. The Turks with the Juice and Sugar make what they call Sorbec; the best of which comes from Alexandria: With the clarified Juice and fine Sugar we make Syrup of Citron, to cool the Blood and quench Thirst. That which is made at Paris is not fit for any thing, being made chiefly of the de-

cay'd Citrons.

the Cedre or Bourgamot, which is made two and Portugal, those which look brisk or fresh. lue: When rightly order'd they are Cephalick, Neurotick, Stomachick, Cardiack, Hy-Nerves, Bitings of Serpents and mad Dogs, and all Sorts of malign and pestilential Difeits, &c.

Under this Head it may not be improper to fay fomething of Limons, which are much of the same Nature; They grow in all the Southern Parts of America; as also in Spain, Portugal, Italy and France, and with much Care and Housing in the Winter in England. The Juice, which is that we intend to speak of here, is sharper than that of Citrons, and therefore dryer and cooler; it is of good Use in Weakness of the Stomach, Vomitings, violent Burning Fevers, as also in Malignant and Pestilential Fevers, and in Diseases of the Kidneys and Bladder: It is also us'd as a Menstruum to dissolve the Bodies of some Mixtures and Drinks. A Syrup of Limons for the same Purpose is made with an equal Quantity of Sugar, and thus the Juice is preferv'd; for if it be kept long by it felf, it will be apt to grow musty and lose its Acidity, and then the Juice is spoil'd.

Citreum Vulgare, as Mr. Tournefort calls it, is a little Tree that is al- Lemery!

ways Green, whose Branches spread wide and are pliant, cloath'd with a smooth green Bark; The Leaves are plain, long, and large as the Walnut, pointed like those of easy to cut, and well dry'd, not full of black the Bay-Tree, but more fleshy, indented on their Sides, of a fine green thining Colour, especially on the Outside, and of a strong Flavour: The Flower is made up of five Leaves round, the Colour white, inclining to red or purple, of a Pleasant smell, supported by a round hard Cup. When the Flower is gone, the Fruit forms it felf usually oblong, sometimes oval, and fometimes almost round; as thick as a large Pear, cover'd with a rough uneven Rind, fleshy, thick, of a green Colour at the Beginning, but as it ripens, it becomes of a light Yellow without, white within, of a very agreeable Smell, and a biting Citron Peels come also to us from Spain Aromatick Taste. This Rind covers a Veficulous

ficulous Substance, divided into several Cells chiefly from Italy and Provence: The distill'd or Partitions full of a Juice that is acid, that is a little bitter. The Fruit carries the Name of the Tree that bears it, which is the Citron-Tree; cultivated in the hot Countries, as Italy, Provence, or Languedoc: The Fruit is chiefly us'd in Physick, the

Leaf and Flower very rarely.

These two latter, namely, the Leaf and Flower afford Abundance of Oil, Volatile and Essential Salt. They are Cordial and ftrengthen: The Rind, especially the very outward Part that is Yellow, yields a good deal of Volatile Salt and Oil; it is proper to fortify the Hearr, Stomach and Brain, to resist Poison. The Juice contains in it a Quantity of Effential Salt and Flegm, but very little Oil: It is Cordial, cooling, proper to abate the Heat of the Blood, to precipitate the Bile, to quench Thirst, and resist Poison. There is a Way of sticking a Cirron all over with Cloves, to carry in the Pocket to smell to in any Epidemical Sickness, in order to drive away the Contagion. There is another Kind call'd the Sweet Citron, because not sharp as the other; but in no Esteem either for its Use or Beauty.

48. Of Oranges.

THE sweet and soure Oranges come from Nice, Aficuta, Grave, the Isles of Hyeres, likewise from Genoa, Portugal, the American Islands, and China; but the largest Store of those we use now come from Provence, where they are fold indifferently without any Method or Order. I shall make no Description of them.

Oranges are candied whole, after having been scoop'd and emptied or peel'd entire; and these are what we call Whole Oranges, or Candied Orange-Peel. The Finest is that which is made at Tours, because it is clearer, more transparent, and of an higher Colour: We have Orange-Peel cut in Chips made at Lyons, which is what we call Orangeat. The other chief Use we make of Oranges of all Sorts, both sweet and soure, and the Bege- Almonds; for which Reason they ought not rade is to candy the Flowers, which come to be bought by honest People.

Water is what we call Naphtha, or Orangeand very pleasant to the Taste, and with flower Water, which is mostly us'd by the some oblong, white, pithy Seeds, of a Taste Perfumers; that which is best, ought to be of a sweet Smell, bitter Taste, very Pleasant, and of that Year's Distillation; for what is kept above the Year lofes its Smell. Those who distil Orange-Flowers, draw a clear Oil of a strong Fragrancy, which the Perfumers call Neroli; the best is made at Rome, and afterwards that in Provence: Notwithstanding some will affure you this is an Error, and that there is better made at Paris than either in Italy or Provence; the Reason is, because Italy and Provence being hotter than our Climate, the Sun more readily exhales the Odour, but with this difference notwithstanding, that we cannot draw the same Quantity of Oil, as in the hot Countries, because all the World knows that the Smell of Flowers proceeds from nothing but the Heat of the Sun and the Dew, which makes that in Italy and Provence they undergo feveral more Distillations. And therefore the Flowers that are in Prime one Month in Paris, hold two in Provence, and Three in Italy, because of their greater Nearness to the Sun.

The People of Provence bring us an Oil, which they make from the Zest, and the outward thin Rind of the Oranges by means of an Alembick and Water, and this Oil is of a strong, sweet Smell. They bring befides, another Sort we call Orangelettes, made of the Orange-Kernels or Seeds, which they distill in an Alembick, with a sufficient Quantity of Water; after having infus'd it five or fix Days in the faid Water. This Oil is of a golden Yellow, and a strong fragrant Smell. The Oils of Oranges are excellent Reme. Oranges as well as Citrons are so common dies for curing Worms in little Children, and likewise the Water made in drawing the Oil serves for the same Purpose: Upon this Account the Perfumers of Provence transport a great deal in Bottles and Barrels to several Parts to give to young Children. The greatest Quantities of this Oil are made at Grave, Biot, three Leagues from Grave, and at Nice: I ought to inform you, that most of the Oils which come from Provence are adulterated or mix'd with Oil of Ben, or Sweet

Auran-

Lemery. malum, Pomum Nerantium vel Anerantium, is a Kind of fine Yellow, fweet scented, round Apple, that grows upon a Tree call'd in Latin, Malus Arantia, sive Arangius; the Leaves ate of the Shape of those of the Bay-Tree, but much larger, always green, having a fine, white, fragrant Smell, compos'd usually of five Leaves that stand round, and are supported by a Cup. This Tree is cultivated in all our Gardens, but especially in the warm Countries.

There are generally two Sorts of Oranges, one small, yellow, greenish, bitter and sharp; the other large, of a fine golden Colour, and sweet to the Tafte: The Bitter is most us'd in Physick, from the outward Rind of which they make Zefts, which are endow'd with a great deal of exalted Oil and Volatile Salt, which contains almost all the Scent of the Fruit; the Juice is acid, and consequently full of effential Salt. The Rind of the bitter Orange is much esteem'd to recreate the Spirits, strengthen the Stomach and Brain, refift the Malignity of Humours, and excite Womens Courses.

The Juice of the bitter Orange is Cordial, and the Flower Cephalick, Stomachick, Hi-fterick, and proper against Worms: The other Orange contains in it a sweet and pleafant Juice, compos'd of a great deal of Flegm, a little Oil and effential Salt, whereof the Rind likewise partakes in the same Degree: The Fruit is moistening, cordial, cooling, and good to allay Thirst in continual Fevers: The Seed has the same Virtue as that of the Citron, but is feldom us'd in Physick.

into three Sorts; the Crab or four Orange; the Bitter or Seville, and the China, or sweet Orange: Of all which, the Seville or Bitter Orange is of most Virtue, and mostly us'd in Phyfick; as the Peel for Confections, the Oil for Perfumes, Juice for Syrups; for Candying, Flowers; Seed or Kernel for Emulfions, and the Water or Spirit for a Cordial; in all which Forms they are Stomachick, Cephalick and Anticolick.

49. Of the Ananas, or King of Fruits. the Ananas the King of Fruits, because it of it. I have found in this Kind a Seed

Aurantium, Arantium, Aureum is much the finest and best of all that are upon the Face of the Earth. It is for this Reason that the King of Kings has plac'd a Crown upon the Head of it, which is as an effential Mark of its Royalty; and at the Fall of the Father, it produces a young King, that succeeds in all his admirable Qualities. It is true, there are others besides that bud again underneath the Fruit, and the fame at the Bottom of the Stalk that produces the Ananas in much less Time, and with the same Ease with that which bears the Crown: But it is also true, that the Fruit which produces this, is incomparably much finer than the others.

This Fruit grows upon a round Stalk, the Thickness of two Thumbs, and about a Foot and half high, which grows in the middle of the Plant, as the Artichoak in the midft of its Leaves; they are about three Foot long, four Fingers broad, hollow like small Canes, and altogether hairy, or rather briftly on the Sides or Edges, with little sharp Prickles, and ending with a sharp Thorn like a Needle. At first the Fruit is not so big as one's Fist; and the Cluster of Leaves, which is the little Crown born upon the Head, is red as Fire; from every Scale or Shell of the Rind of the Fruit, which in Shape, tho' not in Substance, is very like the Pine-Apple; there arises a little purplish Flower, which falls off, and withers as the Fruit encreases.

They are diffinguish'd into three Sorts, namely, the large white Ananas, the Sugar-Loaf, and the Rennet Apple: The First is often eight or ten Inches Diameter, and five Others there are who divide the Oranges or fix high; their Flesh white and fibrous, but the Rind of a golden Yellow; when it is ripe it fends forth a ravishing Smell, which is as strong as that of the Quince, but much more delicate; but tho' it is much larger than others, the Taste is not so excellent, neither is it so much esteem'd; it sets the Teeth on Edge, and makes the Gums bleed more than the others.

The second Sort bears the Name of the Sugar-Loaf from its Shape and Form, that entirely resembles it: It has Leaves a little longer and narrower than the former, and IT was thought a just Appellation, that are not so yellowish; the Taste is bitter. after Father Du Tertre, to call but it makes their Gums bleed that eat much





like a Sort of Cresses, tho' it is the general the Crown, and a Bunch of red Leaves like Opinion that the Ananas does not feed at all.

The Third is the least, but the best, and is call'd the Rennet-Apple, because of its Taste in particular, and Smell, that both agree to that Fruit; it seldom sets the Teeth on Edge, or makes the Mouth bleed, if it is not eat of to a great Excels indeed: All agree that they grow after the same Manner, bearing all their Tufts of Leaves, or their Crown upon their Head; and the Pine-Apple Rind, that rifes and cuts like that of the Melon, and is very fleshy and fibrous, the One as well as the Other; this altogether melts into Water in the Mouth, and is well tasted; that it partakes of the Peach, the Apple, the Quince, and the Muscadine Grape

altogether.

Some to take away the Quality it has of bleeding the Gums, and inflaming the Throats of fuch who eat too much, or before they are full ripe, after having pair'd off the Rind, and cut it into Slices, they leave it a little while to steep in Spanish Wine; and it not only frees the Ananas from this ill Effect, but it communicates to the Wine a most agreeable Taste and Smell. There is a Wine made of the Juice, almost as strong as Malmfer, and which full intoxicate as soon as the best and stoutest Wine in France. If you keep this Wine above three Weeks, it will be almost quite dead and spoil'd; but if you will have Patience with it for a little Time longer, it will recover itself perfectly, and be stronger and better than before; when moderately us'd it is good to exhila-Nauleating of the Stomach; is good to relieve the Suppression of Urine, and is a Counter-Poison for those who have eat too much of the same Fruit, so as to surfeit or be disturb'd with it. We sell at present the Ananas Comfits at Paris, which are brought from the Indian Islands, which are very good, especially for aged People to restore the natural hear, and comfort feeble Spirits.

This Fruit is adorned on the Top with a lit- good Tafte.

Fire: The Rind appears with a Shell like those of the Pine-Apple, but separate like that of the Melon; the Flesh is sibrous, but disfolves in the Mouth, having the delicious Taste of the Peach, the Quince and the

Muscadine Grape altogether.

There are three Sorts as Mr. Pomet has describ'd them from Mr. Du Tertre: They make a Wine from the Juice, which is almost equal to Malmfey Sack, and will fuddle as foon; it is proper to strengthen the Heart and Stomach against Nauseating, to retresh and recruit the Spirits; it excites Urine powerfully; but grown Women ought to avoid it, because it procures Abortion: They make a Confection of the Ananas upon the Spot, which is brought hither whole; this is good to warm and restore a weak and aged Constitution.

50. Of Cotton.

Otton is a white foft Wool, which oction is a winter for wood, is found in a Kind of brown Pomet. Shell, which grows upon a Shrub, in Form of a Buth, according to what Father Du Tertre says of it. At first, when the Islands were inhabited by the French, I saw them, favs he, fill their Houses full of Cotton in hopes it wou'd yield them great Profit in Trade; but most of the Merchants wou'd not meddle with it, because it took too much

Room in the first Place, and was subject to take Fire, decay, and the like.

This Shrub grows in a Bush, and the rate the Spirits when oppress'd, prevent the Branches that stretch wide are well charg'd with Leaves, something less than those of the Sycamore, and almost of the same Shape: it bears a great many fine, yellow, large Flowers; the Head of the Flower is of a purple Colour, and it is all ftrip'd on the Infide; it has an oval Button that appears in the Middle, and grows in Time to the Size of a Pigeon's Egg; when ripe it becomes black, and divides itself into three Parts at Top, the Cotton, or Down, looks white Ananas, Nanas, or Jayama, is as Snow: In the Flake, which is swell'd by Lemery, a very fine East-India Fruit, which the Heat to the Size of a Pullet's Egg, there grows upon a Plant like a Fig- are seven Seeds as large as Lupins, sticking Tree, and of the Size of the Artichoke. together; within it is white, oily, and of a

taken Notice of; which is, that the Flowers, wrap'd up in the Leaves of the same Tree, and bak'd or roafted over a Fire of burning Coals, yields a reddish viscous Oil, that cures in a little Time old standing UIcers. I have often experienced it with very good Success: The Seed of this Shrub will make the Perroquets fuddled; but it is beneficially used against Fluxes of Blood and Poisons.

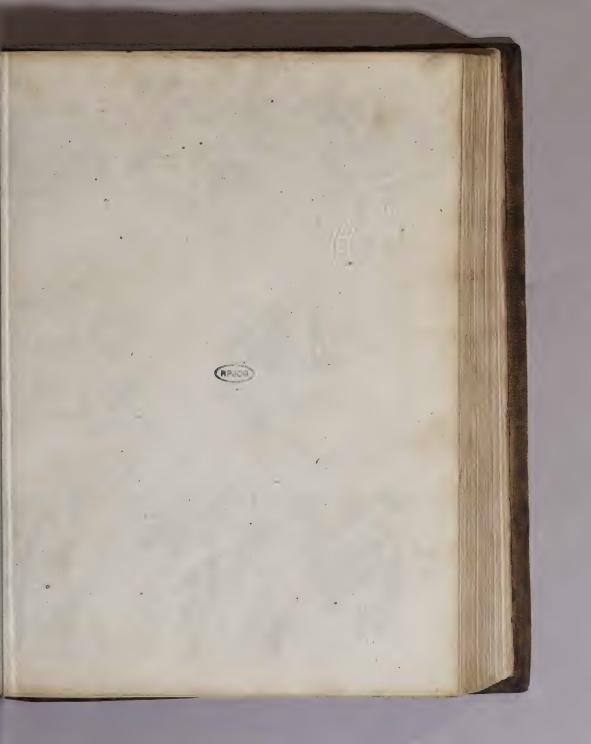
We fell several Sorts of Cottons, which only differ according to the Countries from whence they come, and the various Preparations made of them. The First is the Cotton in the Wool, that is to fay, that which comes from the Shell, from which only we take the Seed : Those Cottons come from Cyprus, Smyrna, &c. The Second is the Cotton in the Yarn, which comes from Damafcus. The Jerusulem Corsons, which are call'd Bazac ; the leffer Bazacs ; the Beledin Cottons; those of Gondezel, Motasin and Genequin; but of all the Cottons, we fell no better than that of Jerusalem and the Islands. The true Bazac, or Ferufalem Cotton, ought to be white, fine, smooth, the best spun, and most equal, or evenest that can be. As to the Cotton in Wool, the whiter, longer, and Iwoeter it is, the more valuable it is. Those who buy in whole Bales, ought to take care is be not damag'd with Mould, Mustiness, or Wes. - Cotton has many Uses too well known to infift on. As to the black Seed which is found in the Cotton, there is an Oil made of it, admirable for taking away Spots and Freckles, and to beautify the Face, and has the same Virtues with Oil of the Cokar Kernels, made after the same Manner by the Natives, especially in the Island of Affumption, from whence almost all the Cokars the Husk, which grows upon a Plant we now fell are brought.

This Cotton comes in great Quantities frutescens semine Albo, by C. Baubinus from all the Islands, and the Natives take which fignifie either the Herb-Cotton, the great Care in the Cultivating of it, as a Annual Shrub-Cotton, or that with the white Thing very useful for their Bedding: I have Seed; It bears a Stalk of a Foot and a observ'd one Thing of the Cotton Flower Half, or two Foot high, that is woody, conot known to any Authors yet, or at least not ver'd with a reddish hairy Bark, divided into several shore Branches; the Leaves are a little less than the Sicamore Leaves, shap'd almost like those of the Vine, hanging to long Stalks, adorn'd with a Nap or Hair; the Flowers are numerous, fine and large, having the Shape or Form of a Bell, flir or cut into five or fix Divisions to the Bottom, of a vellow Colour, mix'd, with red or purple : When the Flower is fallen, it is succeeded by a Fruit the Bigness of a Filbert, which being ripe opens into three or four Quarters or Partitions, from whence appears. a Flake of Cotton, white as Snow, which fwells up or tumefies by Hear, to the Size of a little Apple; it contains in it gross Seeds like small Peas, oblong, white and cottony ; each having in it a little oleaginous Kernel that is sweet to the Take.

The second Sort is call'd Xylon Arboreum, or the Tree Cotton, by 3. Baubinas, Ray, and Tournefort; it differs from the former in Bigness, for this grows into a Tree or Shrubof four or five Foot high. The Leaves approach, in forme Measure, to those of the Linden Tree, endented deep into three Parts, without Nap or Down: The Flowers, and Fruit are like those of the other Kind. The two Species of Cotton grow in Egypt, Syria, Cyprus, Candia and the Indies: The Flowers are vulnerary; the Seed pectoral, proper for Afthma's, Coughs, to procure Seed, consolidate Wounds, for Dysenteries, Scourings of the Belly, Spitting of Blood, &c.

cr. of Dog's Wort Cotton.

THE Houette, or Dog's-Wort Cotton, is a Kirid of Cotton from Romet which the Botanists call Apocynum Cynocram-Xylon, Coto, Gosspium, Cotone- be, which fignifies Dog's-Cabbage, or Dog's-Lemery. um, Bombax Officinarum, or the Wore, which is represented in the Print of Cotton of the Shops, is a Plant Cotton; this grows plentifully near Alexanwhereof there are two Kinds; the First is: dria in Egypt, especially in moult and marshy call'd Xyloni five Gossipium herbaceum, by J. Grounds, from whence we have what is Baubinus, Ray and Tournefort, Goffipium now fold amongstus; this has no other Use fruzescens annuum, by Parkinson and Gossipium than to line the Robes of Persons of Quality.





Efula Indica, or the Indian Spurge: This is Olive, from whence there comes none. a Plant which grows in the Nature of a litthat is acrid and bitter: The Flowers grow Wood, but content my felf only to speak of at the Tops of the Branches in the Nature of the Oil that is from the Olives. Plant is beautiful to the Eyes the Stalk and them. Leaves are cover'd with a Sort of Wool, and morral Bloody-Fluxes.

52. Of Olives.

Apocynum Agyptiacum lactefoens from whence they come. Those of Verona Lemery. Siliqua Asclepiadis C. Bauhious, are most valued of all the three Sons; to vel Apocynum Syriacum, seu Palesti- with our street and small, and those with num sive Agyptiacum, the Syrian, Palestine, the great Stones, are those next to the Spanishor Egyptian Dog's-Wort; Apecynum Egyp- Olives; and the third Sort are the Provencetiacum floribus spicatis Tournefort, Ægyptian Olives, which are call'd the Picholine or the Dog-Wort with Spike-Flowers; and by some Pauline; and very improperly Lugga or Luke-

The Tree that bears the Olives is usually tle Shrub, with straight Rods, or Shoots, of small, as may be seen by the Cut of it. As about three Foot high, whole Leaves are to the Leaves they are thick and green, the long, large and thick as those of Aloes, fet Flowers white, and the Fruit green at the against the Stalks, white and full of the beginning, but of a reddish Green when ripe. same Liquor with the other Parts of the Ishall not take up your Time to describe the Plant; to wit, with a white Juice like Milk, several Works that are made of the Olive

an Ear, Bell-fashion'd, endended and yellow. As soon as the Peasants see that the Olives When the Flowers are gone, a Fruit succeeds are ready to be gathered for keeping, which as thick as one's Fift, oblong like a large is about June and July, they gather them Sheath or Cale, which hang two and two and carry them to Market as they do Cherupon a hard crooked Stalk; the Fruit is ries: Those who wou'd preserve or pickle call'd, in Egypt, Beidelfax, and is covered them, throw them into cold Water, and afwith two Rinds or Barks; the First, or ter they have lain there some Time, they outermost of which, is a green membranous take them out and put them in Salt and Waone; the Second resembles a thin Skin that ter, with the Ashes of the Olives Stones has been dress'd or smooth'd, of a Saffron burn'd and made into a Lye; and after they Colour. This Rind contains a ftringy or have remain'd there a sufficient Time, they fibrous Matter, like the Moss of a Tree with barrel them up, according to what Size best which all the Fruit is full in the Nature fits them, with a Brine or Pickle of Salt and of a fine Conton, that is very fost and white, Water, upon which is thrown a little Essence which is call'd Houatte or Houette; they find in or Tincture made of Cloves, Cinamon, Cothis, Cotton-Seeds, made like those of Pumkins, Fiander, Fennel, and other Aromaticks; and but a Part less, reddish, full of a whitish the whole Knowledge of managing these Pulp, and of a bitter Taste; the Root is Olives depends upon understanding this Mixlong, strong, surrounded with Fibres. This ture, which they keep as a Secret amongst

Chuse your Olives, but especially the Veroare full of Milk; it grows in Egypt about na, new right or true, firm and well pickled; Alexandria; the Leaves being stamp'd and for as soon as the Brine or Pickle Leaves apply'd as a Cataplasm, is reckon'd proper them, they grow soft and black, and, in a to resolve cold Tumours: The Juice makes Word, good for nothing; which is of some the Hair come off, and is a Remedy for cu- Consequence, because they are pretty scarce taneous Cases used externally; but it is also Fruit; for the Spanish-Olive, they are as Poilon given inwardly; for it purges with big as a Pidgeon's Egg, of a pale Green and that Sharpness and Violence, that it causes bitter Taste, which does not please every Body; but for the Provence, especially the Picholine-Olives, they are reckon'd the best. because it is pretended, that Messieurs Picholini of St. Chemas, knew how to pickle them IA/E sell at Paris three Sorts of better than other People; since those are the Olives, which do not differ finest and best Olives, because they are much but in Size, and according to the Country greener, and of a better Tafte than the I man

of delicate Nutriment, Stomachick, Pecto- Leaves are aftringent: The Olive Branch ral, Antifcorbutick, gently loofen the Belly, was always the Emblem of Peace, as the

and are chiefly us'd as Salleting.

there are two Sorts, one cultivated and the other wild; the First is call'd Olea Sativa by Dod. both the Bauhinus's, Ray and Tournefore, the planted or cultivated Olive, whose Trunk is knotty, the Bark smooth, of an ash Colour; the Wood pretty folid, of a yellowith Colour, the Tafte a little bitter; the Leaves are longish and narrow, almost like the Willow, pointed, thick, fleshy, oily, hard, and of a pale Green without, and whitish underneath, but without Hair or Down, hanging by short Stalks oppofite to one another: There arises betwixt the Leaves, Flowers dispos'd in white Bunches, that are supported upon Stalks, consisting each of a fingle Leaf, rais'd to the Top, and flit in four Parts, but that grows narrower, or contracts itself at the Bottom into a Pipe: When the Flower is gone there follows an oblong or oval Fruit, green, fleshy, succulent, which is call'd Oliva, or the Olive; this is less or bigger, according to the Place where it grows: That which grows in Provence and Languedoc is as big as an Acorn; that which Spain produces is larger than a Nurmeg, both Sorts have a little acrid bitter Tafte, and contain under the fleshy Part an oblong stony Nut, which has a Kernel enclos'd within it. This Tree is cultivated in Spain, Italy, Languedoc and Provence.

The wild Olive is call'd Olea Sylvestris, by Gerard and Raij; or by Tournefort and others, Olea Sylvestris Folio duro subtus incano; it differs from the former in that it is much less in all its Parts, and that the Leaves are much whiter underneath: They grow them up with Salt and Water to make 'em fit for eating; for as they are taken from the by Expression, as may be seen in Lemery's Universal Pharmacopæia. This Oil is Emollient, Anodine, Resolutive, Deterfive, proper for Bloody-Fluxes and the Colick; the Olives abound with a great deal of Flegm and cil ntial Salt, which they lofe in being Plaisters. Besides these great Qualities that

line and other Olives of Provence; they are squeez'd, or passing thro' the Press; the Laurel is of Glory. There are certain wild Olea, or the Olive-Tree, is of Olives grow near the red Sea, that throw Lemery, a moderate Bulk or Size, whereof forth a Gum very proper to stop Blood, and cure Wounds.

53. Of Oil Olive.

BEsides the Olives, we make a considerable Business of the Oil, which is so necessary to Life, that we may bring it in Competition with Bread and Wine. The Way of making Oil Olive is little different from that of Almonds, fince it depends upon nothing else, towards the making of good Oil, than after the gathering of the Olives when they begin to redden, that is to fay, when they are full ripe, which is in December and January, to press out the Oil in the Mills for that Purpose, which produces an Oil that is sweet, and of a pleasant Taste and Smell; and this Oil is what we call Virgin-Oil, the most valuable of which is that of Graffe, Aramont, Aix, Nice, likewise some other Places: But as the new-gather'd Olives do not yield the Quantity of Oil which those do which lie some Time upon the Floor; those who wou'd have a great deal of Oil leave the Olives to rot, and afterwards prefs them; but the Oil which they produce is of an unpleasant and disagreeable Tatte and Smell. Some also, to make them vield the more, throw boiling Water upon what remain'd of the first Pressing, which they squeeze over again; and this Oil, made thus, is what we call common Oil, not varying in Goodness, but according to the Places from whence it comes. The Best common Oils come from Genoa, Oneille, and other Parts of Italy, and from Provence, and the Worst likewise in the hot Countries, and they pickle come from Spain, but especially from Majorca and Portugal.

The Choice of Oil is fo well known to Trees, they have an unsufferable Taste: all the World, it wou'd be useless to insist They likewise make Oil Olive from them, upon it: And Oil Olive is so much used, that we have no Sort of Commodity, whereof we make a greater Consumption, in that few can be without it; besides its Use in Medicine, as being the Basis of all compound Oils, Cerecloths, Balfams, Ointments, and

are in Oil Olive, I shall not stop to say that it is a Natural Ballam for the Cure of Wounds, being beat up with Wine; and it is of Wine and this Oil that the Samaritan Balfam is made, and it is a Medicine in vogue at this Day, as well with the Rich as the Poor. Oil Olive is also useful for Burning, especially in Churches, and the like; because it does not ftink so bad as other Sorts of Oils: Besides it lasts longer, but its Dearness makes it that the Poor cannot use it. We likewise have a confiderable Trade in Nut-Oil, which we have brought us from Burgundy, Touraine or Orleans, which bears a great Price, because it is much us'd by Painters and other Workmen, as Printers, Rolling-Press Workers, and the like; and besides there's a great many who use it for the Cure of Wounds, as being a Natural Balsam, and so for Frying withal. As to its Use for Burning, it is a very ill Practice, because it is quickly consumed, and moreover, it is reduced to a Coal. We make further a considerable Dealing in Oil of Rapes, which we have from Flanders, and a common Sort from Champagne or Normandy. So likewise we have Oil of Camomil and Linseed from Flanders and other Parts, especially when Train or Whale-Oil is dear. Besides the Oil of Olives complear, which is as I have said, what is press'd out of ripe Olives, and is brought to us frequently from Florence as well as Genoa, there is the Oil Omphacine press'd out of unripe Olives, for which Reason it is cooling, drying, and binding, used in several Compositions for strengthening the Stomach, healing Exulcerations, cooling the Heat of Inflammations and repercuffing Tumours in their beginning: hereof is made Oil of Rofes, Omphacine and Oil of Quinces. The Oil of ripe Olives heats and moistens moderately, whereof the Old mollifies more than the New, but the last is best for internal Uses, and loosens the Belly, taken in warm Ate or the like to an Ounce; it corrects the Drynels or Huskinels of the Breast, and allays the Pains of the Belly, relaxes the Ureters, cleanses and heals them: It is us'd with warm Water to provoke Vomiting, and cleanse the Stomach. A Linetus is made of it, with Syrup of Violets against Hoarseness and Shortness of Breath, and to open Ooftructions of the Breast or Urinary Passages; it is us'd in Clysters to thors do affirm. Besides the Sorts of Soap

loosen the Belly, and mollify the harden'd Excrements: The diftill'd Oil Olive is that which is call'd Oil of Bricks, which is a fubtil and piercing Oil and of great Virtues, but not much us'd, because it stinks so egregiously, tho' good in both Gout and Palfy.

54. Of Soap.

Besides the great Consumption made of Oil Olive for Works where requifite, for different Foods and for Physick, it is made the Basis or Ground work of several Sorts of Soaps which we fell: I mean those of the best Sorts, the most valuable of which is the Alicant-Soap, next the Carthagena, the Third is the true Marseilles Soap, the Fourth that of Gayette, the Fifth the Toulon-Soap, we falfely call Genoa-Soap. Soap is a Composition of Oil Olive, Starch, Lime-Water, and a Lixivium or Lye of Pot-Ashes, mix'd all together by boiling into a Paste, which is made into Balls or Cakes, in the Form and Figure as they are now brought to us. As to the Mixture or sprinkling of their Green and Vermilion together, I shall say nothing, it being a Secret the Soap-Boilers keep among themselves ; nevertheless I have been affur'd that they mix red Oker of Copperas, and that from Agna fortis, which is the Caput Mortuum of Vitriol, call'd Colcothar; but as I am not certain, I shall say nothing further of it.

The Choice of Soap is to have it dry, well marbled or stained, and True from the Place whence it derives its Name; that is to fay, that such as is sold for Alicant be true Alicant; and so of the rest. The Toulon-Soap shou'd be Dry, of a white tending to a little blewish Colour, cut even, glossy, and of a good Smell, and the least fat or oily that can be: As to the marbled Sore, that which is of a red Vein on the fide, and of a fine Green and Vermilion within is most esteem'd, because it is best mark'd, of most Use, and the best Sale. As to the Virtues of Soap, they are well enough known, but as few will imagine it is of any great Use in Medicine, I must nevertheless declare that it is us'd with Succels in the Cure of cold Humours, being diffolv'd in Spirit of Wine; and there is a Plaifter compos'd of it, call'd the Soap Plaister, which has very great Virtues, as many Au-

thas

that I have been speaking of, there is a Kind come from the same Plant; however the amade at Rouen, which is of a certain Grease leffer the Capers are and full of Stalks, the that is found upon the Kettles and Pots of more they are valued? Asto the Majorosthe Boiling Cooks and Tripe Dreffers; but Capers, they are little dirty Salcones, whereas this is a pernicious Soap, I shall fay no of there are some Sale in Times of Peace. more of it, but that it serves the poor People. At Lyons they eat another Sort of flat Capers We fell a Liquid or fost Soap, which we call with a rank falt Tafte; but this Sort being Black Soap, made at Abbeville and Amiens, seldom or never demanded, we sell but very of the Remains of burnt Oil, but as this Soap is of a brown Colour, there comes from Holland a green Sort, because instead of the burnt Oil they make use of Hemp Oil, which is green. The black Abbeville-Soap, which we tell in little Barrels, is much in use a- Capparis Spinosa frustu minore, mongst the Cap-Makers, and several other folio rozundo, The Round-leav'd Ca- Lemery: Workmen or Artificers. The green, liquid or fost Soap from Holland is us'd by several to rub on the Soles of the Feet of fuch as are in Fevers, which is pretended to carry them off, which ought nor entirely to be rejected, fince I have known Persons who have been cured by it : But as this Soap is very scarce small Fleads or green Buds, which are gain France, fince none comes there in Time of ther'd when at their full Growth before they War, they must content themselves with that are blown, to pickle for Preserving: When of Abbeville.

55. Of Capers.

Pomet. Capers are Buds or Tops of Flowers which grow upon a Plant that is a Shrub about Toulon and other Parts of Provence, from whence come almost all the Capers we now fell: They likewife come from Majorca, as you will find hereafter.

We fell several Sorts, that scarce differ but as to their Size, and the several Countries that produce them, from whence they take their Names; for 'tis a certain Truth, that all the Capers eaten in Europe, except those of Majorca come from Toulon, likewise from the Names of places they are call'd Nice or Genoa-Capers; whereas they are all the same, and ought to be call'd Toulon or French-Capers. When they are ready to be gather'd, they greater Caper, without prickly Fruit; this ought to be done fo in four and twenty Hours; for if they are not gather'd exactly during the Time of Budding, they open themselves, and are neither proper for Pickling, or making Vinegar. When the Peasants have Salt and Oil. They excite or promote an gather'd their Capers before they pickle them, Appetite, strengthen the Stomach, are aperithey run them thro' Sieves whole Holes are tive, and particularly serviceable in Diseases of different Sizes, by which means they have of the Spleen : The Bark of the Root is very Capers of several Sorts, which nevertheless aperitive and proper to open Obstructions of

few of 'em: But much more of two other Sorts of Flowers pickled in Vinegar, One whereof is call'd Monks-hood, and the other Broom or Broom-Buds; which Plants are fo well known they need no Description.

per, with the less prickly Fruit, lays Baubinus. This is a little Shrub adorn'd or furnish'd with crooked Prickles, the Branches are bending, the Leaves round, and something bitter to the Tafte; it bears Sprigs, or little diftinct Stalks, carrying on their Tops the Bud is full blown, there appears four white Leaves like a Rose, supported on a Cup, likewise of four Leaves, in the Middle of which rifes a Spire that ends in a Bud. When the Flower is gone, this Bud, according to Mr. Tournefort, produces a Fruit whole Shape resembles that of a Pear, which enclofes in its Flesh several small Seeds, lodg'd each in a small Nich or Corner: The Roots are long and thick, from whence the Rind or Peeling is separated to dry; it ought to be thick, hard, whitish, difficult to break, and of a biting Tafte. The Caper Tree or Shrub is cultivated in Provence, especially about Taulon.

There is another Species, or Kind of Caper, which differs from that we have been speaking of, in that it is not prickly, and that the Fruit is larger, it is call'd by Cafp. Bauhinus, Capparis non Spinosa fructu majore, the grows in Arabia of the Height of a Tree, and retains its Leaves all Winter. The Caper, and the Bark thereof, are both us'd in Physick, and yield a great deal of effential

the Spleen, and other Viscera, to diffipate Me-break; it bears long Branches, and its Leaves lancholy, and resist Poilon. The Pickle is the Length of one's Hand, two or three Fin-Pickle and the Things pickled.

66. Of Bay-Berries.

Pometo Bay-Berries are Fruit of the Bigness of one's little Finger end green at the Beginning; and which grow browner as they ripen : These Berries are as well known as the Tree that bears them, of which it wou'd be needless to make mention, only so far as to fay, that they ought to be chose fresh, well dry'd, the best fed, and the blackest that can be, take this Precaution that they be not Wormcaten, to which they are very Subject.

These Berries are of some Use in Physick, but more considerably with the Dyers and the Farriers. They are much us'd in Languedoc, and make into Oil, as I shall shew in the next Chapter; and tho' they grow plentifully in feveral Places of the Streights, yet they are brought to us from Port O Port, of a blackiff brown Colour, having a Kind of hot oleaginous Tafte. They are cephalick, neurotick, alexipharmack and anticoliek; they mollifie, discuss, expel Wind, open Obstructions, provoke Urine and the Terms, facilitate the Travel of Women in Labour, and help Crudities in the Stomach; they are good for the Nerves in Convulsions and Palsies, give Ease in the most extream Colicks, and take away the After-Pains of Women in Child-Bed; they are us'd in Powder, Decoctions, Tincture, Spirit, Blectuary, Plaister and Oil, the last of which is made by Distillation, which difcuffes Wind, cures the Colick, Cramps, Convulfions, Palfies, Pains, Old Aches, Gouts, Lamenels, Numbnels, Sciatica. Dole inwardly, from four Drops to fix; or outwardly, a Drop or two put into the Ear, helps the Hearing; it

Laurus, or Laurus Vulgaris, The Lemery. Bay is a Tree which grows usually of a moderate Height in temperate Climates, but which rifes higher in the hot

is also excellent for Diseases: of the Skin; as

Dandriff, Morphew, Sore Heads, Seabs, &c.

us'das Sauce with Meat, and is made of Vine- gers broad, pointed, hard, always green, gar, Salt-Water, and a proportionable Quan- a little fucculent, stringy, smooth and fracity of Spirit of Wine, which preserves the grant, of an acrie, aromatick Taste, and a little bitter, tied by fhort Stalks. The Flowers are each of a fingle Leaf cut into four or five Parts of a white or yellowish Colour, succeeded by Berries the Bigness of a small Cherry, oblong, green at first, but brown as they grow riper: There is found upon the Skin a pretty hard Shell, which contains within it a longish Seed. These Berries are odorous, aromatick, oily and bitter: The Roots thick and uneven, the Tree grows in hot dry Places, is improved in Gardens, the Leaves are uleful in Medicine, and yield a good deal of Oil, and volatile Salt.

57. Of Oil of Bays.

HE Oil of Bays, or Oleum Lau- Pomet. rinum, is an Oil made of the Bay Berries, by bruifing them and letting them stand in warm Water several Days in Balneo Maria, then distilling by an Alembick, which is barrel'd up to be transported to feveral Places. That which is mostly fold in France; is brought from Provence and Languedoc, especially from a Place call'd Calingfon near Montpellier, from whence the Best is brought: As for that of Provence, it is nothing else but Fat and Turpentine colour'd with Verditer or Nightshade. Therefore use none but that from Languedoc, as being the best of all, when it has all its requisite Qualities, which are to be new, well scented, of a good Confiftence, and of a green Colour, tending something towards the Yellow, and meddle not with that which is green, shining, liquid and of another Smell than the Bay, such as that of Provence, or what is made at Lyons, Rouen or Paris, by knavish People who have no Conscience, but wou'd impole their Rubbish upon the World for a good Commodity; such are those who counterfeit and sell Rosin for Scammony, Arcanson for Gum Guajacum, fat Pitch for Benjamin, and Kitchinstuff discolour'd with green, for Oil of Bays, Turmerick for Saffron Powder, Countries, as in Italy, Spain, &c. The Stem and Honey boil'd up with a Hodg-podge is smooth without Knots; the Bark some- of powder'd Roots for Treacle, and in a thing thick, the Wood porous and easy to Word, all Sorts of Drugs sophisticated

deceive the Publick, and to make a better Advantage than their Fellow-Traders; which is a Thing I fear too much practis'd all over Europe, as well as in France.

58. Of Damask Raisins.

THE Raifins call'd the Damask, are the flat ones of the Length and Thickness of one's Thumb End, which we have brought from Damascus the Capital of Syria, in Bags or Bales. Chuse the newest, largest, and best fed, and beware they are not Calabrian Raisins, or flat Jubes, and made up in Form of the Damask Raifins, as it happens but too often to feveral Grocers, who make no Difficulty to fell the one for the other; which nevertheless are easie to distinguish, because the Damask Raisins are thick, large, fleshy, dry and firm, and are seldom without two Kernel-stones or Pepins; neither are they of such a faint disagreeable Tafte as those of the Calabrian, which are of a fat, foft and fweet fugary Tafte as well as the Jubes.

The Damask Raisins are much us'd in Pectoral Ptisans and Decoctions, and are frequently join'd with Jujubs, Sebestens and Dates; likewise in Syrup of Marsh-Mallows, in the Healing Lohoch, Lenirive Electuary, Confection of Hamech, and in the Electuary of Fleawort. Raisins are nothing else but Grapes dip'd several times in Boiling Water, and dry'd in the Sun. Damask Raifins are most approv'd of; but we commonly use those that are prepared in Narbon in France, and out of which there is a strong Spirit extracted, or a good Sort of Brandy: They are endued with much the same Properties as Figs. Take Raifins of the Sun half a Pound, Boil them in a sufficient Quantity of generous Wine, Pulp them thro' a Hair-Sieve, and add two Ounces of Hystop in Powder, of the Cooling Species, or Pow- that they fell not for above 3 Livres or a der of Pearls one Ounce, and make an Opiate to be taken to the Quantity of two feilles are not fold under nine or ten Livres. Drams in an Asthma.

59. Of Currans.

THE Raisins of Corinth, or Currans, are little Raisins or Grapes of different Colours, being black, red and

white, and commonly of the Size of the red Gooseberry: The Vine that bears this is low, furnished with thick Leaves very much indented, which grow plentifully in a vast spacious Plain that is situated behind the Fortress of Zant in Greece. This Plain is surrounded with Mountains and Hills, and is divided into two Vineyards, in which are Abundance of Cyprus, Olives and Houses of Pleasure, which make, together with the Fortress and the Mount Discoppo, a Prospect perfectly beautiful.

When these little Raisins are ripe, which happens in August, the People of Zanz gather and stone them, then spread them upon the Ground to dry, and when dry'd carry them into the Town, where they are thrown thorow a Hole into the great Magazine, call'd the Seraglio; where they are squeez'd so close by them that own them, that they are oblig'd to use Iron Instruments to pull them out, and when they are pull'd out, to put 'em into Casks or Bales of different Bigness, and to make 'em so tight as they are brought to us, they imploy Men to tread them with their Feet, for which Purpose they rub 'em well with Oil beforehand.

Sometimes also we bring Raisins from Natolia, Lepanto, and Corinth; from whence they take their Name: The English have a Factory at Zant, govern'd by a Conful and fix Merchants to carry on their Commerce, which brings in no small Advantage, for they consume more Currans in a Year than all the rest of Europe. The Dutch have a Conful and two Merchants, and the French a Commissary that does the Duty of the Conful and Merchants under one. The People of Zant believe to this Day that the Europeans use these Raisins to dye Cloths, not knowing that they are for Eating.

This Fruit is so common upon the Spor, Crown a Hundred Weight, and at Maraccording to the Crop and Hazard of the Sea; which when free, the English and Dutch bring 'em plentifully from thence to Bourdeaux, Rochelle, Nantes and Rouen, where we Buy them at an easier Price, than a Marseilles. Chuse such as are the newest and freshest, small and in the close Mass un

pick'd, and not rub'd over with Honey; dry'd Raifins. There are feveral Sorts after they open Obstructions, and nourish much, being of excellent Use to restore in Confumptions and Hecticks; they are good in Coughs, Colds, or Afthma's, either in Decoction, Honey, Syrup or Conferve.

Vitis Vinifera, the Wine-bearing Vine, is a Shrub whose Stem or Stalk is winding or crooked, co-

ver'd with a cracking Bark, reddish, bearing feveral long Shoots, furnish'd with Wyers, that creep and cling to the neighbouring Trees or Props. The Leaves are large, fair, broad, almost round, jagged and cut in; green, shining, and a little rough to the Touch. The Flowers are little, composed usually of five Leaves each, dispos'd round, of a yellowish Colour, and fragrant. The Fruit are round or oval Berries, pressing close one against the other in a thick Bunch, green and sharp at the Beginning, but in ripening they become of a white, red, or black Colour; and are fleshy, full of a sweet agreeable Juice. They are call'd in Latin, Toe, and in French, Raifins, as we now call them when dry.

When in Spring Time they cut the Tops of the Vines in the Sap, there naturally distills or drops a Liquor in Tear call'd, The Bleeding of the Vine, and in Latin, Aqua Viti, which is aperitive, deterfive, proper for the Stone and Gravel, being taken inwardly: The Eyes are likewise wash'd with it, to destroy the Humours, and clear the

Sight.

The Vine Buds, tender Leaves and Clingers, which they call in Latin, Pampini feu Capreoli, are aftringent, cooling, proper for the Flux of the Belly and Hemorrhages, being taken in Decoction; they are likewise made into Fomentations for the Legs, and to procure Reft. The Shoots or Wood of the Vine are aperitive, being made into a Decoction. The Raifins, while green, are call'd in Latin, Agresta or Verjuice, being aftringent, cooling, and provoking to an Appetite; when ripe they quicken the Stomach, loosen the Belly, and when press'd become Must, which is afterwards made into Wine.

the same Manner as the large, which are call'd Uvæ Damascenæ, or Damask Raisins, and the small call'd Uve Corinthiace, the Corinthian Grape or Currans; they are all proper to sweeten the Asperity of the Breast and Lungs, to foften the Bowels, and relax the Belly, and to promote Expectoration, being cleans'd from their Stones, which are astringent.

The Husk, or Skin of the Grape, which remains after the last Expression from whence they draw the Must is call'd, in Latin, Vinacea: They throw this on Heaps, to the End that it may ferment and grow hot; then they wrap it round the Member or the whole Body of the Patient afflicted with the Rheumatism, Palsy, or Hip Gout, to make 'em sweat, and to frengthen the Nerves; but it sometimes raises the Vertigo, by Means of the sulphureous Spirit that ascends to the

60. Of Raisins, Grapes or Jubes.

THele are such as we have brought from Provence, especially Ro-Pomet. quevarre and Ouriol: For when the Raisins are ripe they gather the Bunches, dip 'em in Liquor, and afterwards put 'em upon Hurdles, and the like, to dry in the Sun, turning them from one Side to the Other, by which Means they dry equally; and when they are dry they put 'em up in little Chests of white Wood, fuch as they are brought over in: And to answer the Quality required, they ought to be new, dry, in fine Bunches: that is to fay, the less plump and stony that may be, but to be clear and bright, of a sweet sugar Taste.

There are other Sorts of Raifins that come from other Places, which we call Picardans, which are much less, drier, and skinnier; in a Word, less than the Jubes. We sell great Quantities of Calabrian Raisins, which are Fat, and of a very good Tafte: The Maroquins, which are black Raisins: the Raisins of the Sun, which come from Raisins are either dry'd in the Sun, or be- Spain, which are those whereof they make fore the Fire, to deprive them of their their Spanish Wine, are dry'd red and bluish Flegm, and make 'em capable of keeping; Raisins, and of a very good Taste. The they are call'd Uva Passa, seu Passula, or Spanish Raisins, of the less Sorts, are something

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others.

There are a vast Quantity of other Sorts whereof there are great Trade and Abundance of different Wines from; as those of Spain, Alicant, St. Laurence, Frontignan, Hermitage, Burbataume or Languedoc, and feveral others. There are other Sorts from which we drive a great Trade of Brandies, that come from Cognac, Blois, Saumur, and other Parts; besides which, there are several other Kinds of Brandy, as that made from Beer, Cider, Fruits, &c. but as they do not properly relate to this Head, I shall pass them by.

The Use of Brandy is so common at this Time, we have no Occasion to enter into a Detail of it any farther than it relates to Medicine, in which it is us'd to strengthen the Nerves, abate Pain, refresh the Spirits, and dispose the Parts to Perspiration. We make from Brandy, by an Alembick, a spirituous Liquor that is clear and transparent, call'd Spirit of Wine; which if good and true ought to be white, and when fet on Fire that will burn off without any Moisture remaining, to know whether it is truely deflegmated, or Proof-Spirit, as it is term'd, is to try it with Gun-Powder in a Spoon; which if it burns dry, and afterwards fires the Gun-Powder, it is an infallible Sign of its Goodness.

61. Of White and Red Tartar.

Mite and red Tartar is a Sort of Stone which is found sticking to the Casks of white or red German Wines, and are nominated according to the Thickness it is of, and the Place from whence it is brought. The finest Tartar is that of Germany, as well because of its Thickness, as the Time that it remains in the Casks, where it obtains the Name of white or red Tartar: The First, according to its requifite Quality, it being thick enough, easie to break, white without, and brillant within, and as little earthy or dreggy as may be; and the Red is the better the nearer it ap- of the best white Tartar, in a large Quantiproaches to the former. The Second is what ty of boiling Water; which Liquor pass hor comes from Provence and Languedoc, which thro' a Bag, into an Earthen or Glass Vefcomes nearest to that of the Rine. The sel; evaporate about half of it away, and Third Sort is what we now call the Gravel then fet it in a cool Place to criftallize for two

thing larger than those of Corinth and several of Lyons, which differs not from that of Paris, only that it is a little thicker, and of a higher Colour. The Use of Tartar and the Gravel, is for the Dyers, Goldsmiths and Refiners, to blanch Silver; and likewise for several Chimical Operations as hereafter: The White is preferable to the Red, being much better.

62. Of Chrystals of Tartar.

THE Cream or Chrystals of Tartar, is a white or red Tartar reduced to Powder, and by Means of boiling Water converted into little white Crystals, after the Manner as will be shew'd hereaster. The best Cream of Tartar is brought us from Montpellier, and other Parts about Nismes, where they make great Quantities, but the last is less

fine than that of Montpellier.

To purifie Tartar; take good white Chrya Stalline Tartar, ten Pounds, beat it into fine Powder, and dissolve it in fix Gallons of boiling Spring Water, and continue the Boiling 'till it is diffolved; then prefently strain it hot thro' a Bag, and stir the strained Liquor continually round with a wooden Slice 'till it is cold, then let it rest, and in two or three Hours after, the pure and fine Tartar will fink to the Bottom of the Vessel. in the Form of an impalpable and shining Powder. This Tartar is good to attenuate and dissolve gross and tartarous Humours. which cause Obstructions in the first Region of the Belly, Liver, Spleen, Mesentery, Pancreas, Reins and Womb; it is an universal Digestive and Deoppilative, and for this Reason is commonly given as a Preparative to stronger Purgations; and it is good for all fuch as are naturally hot and costive. and do not easily go to Stool, gently opening and loosening the Bowels, without offending the Stomach, or diffurbing the other Functions of Nature; Dole from two Drams to half an Ounce and upwards.

For cristallizing and making Cream of Tartar: Diffolve what Quantity you please or three Days; evaporate again half the and stir the Liquor 'till it be cooled, and you and Way of giving are the same.

62. Of the Vegetable Salt.

THE Vegetable Salt, or foluble Tartar, is the Cream and Salt of Tartar, diffolved together, which is lately come into Practice, and is said to be the Invention of diffolve in any cold Liquor, and is call'd the two Scruples in Broth or other proper Liquor. Vegetable Salt: It has all the Virues of purified Tarrar aforegoing, and may be given from a Scruple to a Dram in any proper Liquor; but because this Remedy is appropriated to open Obstructions of the Liver, Spleen, Womb, &c. and that Iron is one of the chiefest Specificks for this Purpole; you may, by the following Method, unite the two Ingredients into one.

64. Of Chalibeated Tartar.

Take of the purified Tartar before, one Pound; clear Filings of Iron or Steel, two Ounces; pure Rain Water, eight Pints; of Urine, and Stoppages of Terms in Woboil all in a clean Iron Kettle, as long as to boil an Egg fit for eating, or somewhat longer; then pass it thro' a woollen Strainer,

Liquor, and cristallize again, 'till you have got shall have a Powder of a chalibeate Tartar, all the Tartar; what swims on the Top is of a greenish Colour, and shining when dry; call'd the Cream of Tartar, and the Shooting containing in it the Vitriol of Mars: This on the Sides are call'd Criftals of Tartar. is incomparably more aperitive than the The Virtues of both these are the same foregoing Preparations, and has all the Virwith the former, being aperitive and pur- tues of them exalted to a high Degree, and gative, good for Cachectical, Hydropical, therefore a most prevalent Thing against the and Astmatical Persons, and excellent against Green-Sickness, and other Historick Disea-Tertian and Quartan Agues; and the Dose ses; but if you prepare it of the purified Tartar that is foluble, it will eafily diffolve in any Liquors, and so be more fit for Use. Dose from half a Scruple to half a Dram. Note, That the Artist had best prepare the purified Tartar, of which this is to be made, by itself, because most of what is fold in the Shops, is adulterated with Alum or Nitre, or both; or you may make it thus:

Take of Tartar cristalliz'd, one Pound; Friar Auge the Capuchin; the Sale of which Rust of Iron, three Ounces; Water, fix has been confiderably great, fince some Quarts; boil all together for half an Hour, have dispos'd for him, of two hundred Weight or so long as to dissolve the Tartar; strain it of the red Tarrar, and above a thousand hot thro' a Bag into an Iron Kettle, and in Weight of Cream of Tartar. Take Cristals twelve Hours it will shoot into brown Cristals of Tartar in Powder, eight Ounces; pure at the Sides and Bottom of the Kettle; de-Salt of Tartar, four Ounces; mix them, cant the Liquor, evaporate it half, and fet it and in a glaz'd earthen Pipkin; put upon to cristallize again in the former Kettle; conthem three Pints of pure Spring Water; boil tinue these Operations 'till you have all your gently for half an Hour; then letting it Tartar; which dry in the Sun and keep for cool, filtrate and evaporate to Dryness; so Use. It is a good Remedy for Obstructions, will you have eleven Ounces, at the Bottom, especially against Quartan Agues, having all and fix Drams of a white Salt, which keep the Virtues of the purified Tartar, but much in a Glass close stop'd for Use: This will more powerful: Dose from fifteen Grains to

65. Of Soluble Tartar Chalibeated.

Take of Tincture of Mars, one Pint: of the purified soluble Tartar, four Ounces; mix, dissolve by boiling, and evaporate to Dryness; so will you have eight Ounces of a soluble chalibeate Tartar in a black Bowder, which keep for Use in a Glass close stop'd: It has all the Virtues of chalibeate Tartar before, and of the Tincture of Mars, being powerful to remove all Kinds of Obstructions; cure Cachexies, Dropfies, Nephritick Colicks, Obstructions men: Dose from ten Grains to thirty.

66. Of Soluble Emetick Tartar.

Ake purified Tartar or Crystals in Powder, four Ounces; Spirit of Urine, or Sal Armoniack, as much as to cover it two Inches; mix and dissolve; then add Glass of Antimony in fine Powder, one Ounce; pure Spring Water, ten Ounces; boil in a Sand Heat seven or eight Hours, putting in more Water as the Liquor consumes; then filtrate and avaporate to dryness. Or thus, Take of the foluble Tartar, four Ounces; Glass of Antimony in fine Powder, one Ounce; fair Water a Quart; mix and boil seven or eight Hours, putting in more Water as the Liquor consumes, then filtrate and evaporate to Dryness, so will you have a grey Powder of the same Virtue with the former.

It is a most powerful Thing against all long continuing and obstinate Diseases in any Part of the Body, disposing the Patient to Health: It prevails against Melancholy Madness, Frenzies, Deliriums, and particularly against all Manner of invererate Pains of the Head, whether Idiopathetick, or by Consent of Parts: It is powerful against the Virtigo, Epileply, Apoplexy, Difficulty of Hearing, Ringing, and Noile in the Ears, Loss of Memory, Nauseousness and Loathing at the Stomach, Weakness thereof, Want of Apperite; Wind and Pain in the Stomach and Bowels; the yellow Jaundice, Dropfy, tedious and long continued Tertian and Quartan Agues, putrid and acute Fevers; Poison immediately received, a bilious Pleurify, and all Difeases arising from Choler; virulent Dysenteries, the Plague, Hungarick Fever, and the like. It is an Emerick that works with little Violence, and may be given from five Grains to fifteen in Mutton, Chicken, or Veal Broth.

67. Of the Distillation of Tartar.

Pomet. THat which is call'd a Distillation and red Tartar to a Powder, and putting it tar and place it in a Cellar or Vault, in a Glass in an earthen Por, fo as to draw off by the hung up in the Air, and the Oil which flows

Water without Taste, that ought to be thrown away: When the Flegm is separated there remains a reddish Water, which is the Spirit of Tartar, and after that a black Oil that is fetid and very thick; which is what we now call black Oil of Tartar, or Oil of Tartar by the Retort: That which remains in the Retort like Coal, after having been calcin'd and whiten'd, by the Means of hot Water, is made into a very white Salt, which is the true Salt of Tartar. The Spirit of Tartar rectified, that is to fay diffill'd or drawn over again, is very proper to cure the Epilepsy, Palsy, Asthma and Scurvy: The Dose is from one Dram to three, in a convenient Liquor.

The black Oil of Tartar, by the Retort, is admirable for the Cure of Scabs, and other external Remedies; but as it is too fetid, they may rectify it with rich dry'd Earth, before they make Use of it. The Salt of Tartar is very necessary to make the vegetable Salt with; and fomething confiderable in Physick, as well as to take out the Tincture of Vegetables, and to make white Oil of Tartar, call'd the Oleum Tartari per Deliquium, or Liquor of Tartar.

Most of those who make the Salt of Tartar never trouble themselves about drawing off the Spirit or Oil, but only calcine the red Tartar over a Coal Fire, 'till it comes to a Whiteness, and so put it up into Bottles for Use. The true fix'd or Alcaline Salt of Tarear, ought to be pure, white, dry, piquant to the Taste, attended with a little Bitterness : and when it is thrown on a Coal Fire, does not sparkle at all.

Abundance of Chymists, especially the meaner Sort, fell a Salt of Tartar made with Saltpeter, which deceives the Eyes of those who know no better than that it is extreamly white, but the Use of it is very mischievous; tho' the Cheat is easie to discover, because this will sparkle upon the Fire, which the True will not do.

They make of the true Salt of Tartar, after they have fet it in a Cellar, a white clear Oil, which is what we improperly call Oil of Tartar per Deliquium. Those who of Tartar is the bruifing white wou'd make this Oil, take the calcin'd Tar-Force of the Fire a Flegm, which is a white from it is clear and fine as if it had been made

from the Salt; This Secret is owing to a Lady at Paris, who discover'd this for Beautifying the Face without subjecting it to Wrinkles. There are some People who make this Oil by dissolving Salt of Tartar with Water, and sell it for true Oil, which can never answer, because this is reddish, thinner, and is more acrid than the other; so that it will fret the Skin in a little Time, if laid upon it.

68. Of Tineture of Salt of Tartar.

Pomet. THE Tincture of Salt of Tartar is made of Salt of Tartar that has undergone the strongest Degree of the Fire, and afterwards is dissolv'd in Spirit of Wine tartariz'd, which after it has stood in Insusance into a Bottle to be well stoy'd and kept for Use. This Tincture when rightly prepared, ought to be of a noble red Colour; it is us'd in Physick chiefly for the Scurvy, and to cleanse the Blood; Dose from 20 to 40 Drops. It is observable the better Colour this Tincture is of, the better it is prepar'd, and the older it grows, the more decay'd and fainter the Colour is.

69. Of Tartar Vitriolate.

Magistery of Tartar, or Tartar Vitriolate, is compos'd of Salt of Tarrar or Oil of Tarrar per Deliquium, and good Spirit or Oil of Vitriol mix'd together and dry'd by a Sand heat to a very fine white Salt; which if right, ought to be as dry and light as possible; but take Care, that it be not made of Cream of Tartar boil'd in Spirit of Vitriol, as happens too often, and sometimes of Salt-Petre fix'd, or with Crystal Mineral: That made with Cream of Tartar is easie to discover, when reduc'd to Powder, by the Hardness of the Grain, which is usually met with in Breaking it; and the Last, because it will sparkle on the Fire, and easily dissolve. This is frequently us'd in Physick, as a good Aperitive, &c. and ought to be kept in a Glass Viol close stop'd, because it is apt to run to Water.

70. Of Volatile Salt of Tartar.

Take Volatile Salt of Tartar, of the Lees of White-wine express'd and dry'd in the Sun, or otherwise; put them into a Retort, and diffill with a gradual Fire, as you have it Taught by Mr. Charas, in his Royal Pharmacopacia, Galenical and Chymical, Printed in the Year 1676. This Volatile Salt is of a strong Diaphoretick Nature, but is more particularly aperitive and diuretick; it ought to be very white, and of a Smell almost as quick and penetrating as the Volatile Salts of Animals; it may be given to sive or six Grains in good Wine or other Liquors.

71. Of the Gravel or Stone Tartar.

THE Ash-colour'd Gravel is made from the Wine Lees calcined dry, and that it may have the due Quality required, it ought to be a Stone new Made, of a greenish white Colour, and of a saltish bitter Taste. This is us'd by the Dyers and other People that have Occasion for it; and the best is that which comes from Burgundy, because it is made of the Best, and therefore must needs be much better than what our Vinegar-Brewers make.

As this is Wine Lees calcin'd, they make of it by means of Hot-Water which has almost the very same Virtues with Salt of Tartar, except that it is more corrofive, as well as the Oil per Deliquium that is made from it. This is also imploy'd with Quicklime to make a Salt, which after it has been fus'd in a Crucible, is cast upon a Stone or into a Basin, and after it is cold, is cut into little Tablets, and put into a Bottle well stop'd, and these little Stones, are true Cauflick Stones. They are likewise made together with Oak-Ashes, Alum and Quick-lime by the Affiftance of hot Water and Fire; and these are call'd Velver Causticks, because they operate so gently.

Tartarum or Tartar, is a hard, frony or crufty Matter, which is found flicking to the infides of Wine Casks; this Tartar is compos'd of the groffeth

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166 groffest and most saline Part of the Wine, Wine Lees burnt and cast into Water, and

that is made from red Wine. The white Tartar is separated in much less and thinner Pieces than the red Tartar, but is much Finer, and fuller of Salt. Chuse the thickest, heaviest and most brittle, of a greyish or ash-colour'd white, clean, Cristalline and thining within, and of a tharpith

pleasant Taste.

The red Tartar is divided into large thick Pieces, being to be chose, pure, dry, red-dish and weighty: this Tartar is courser than the White, but of the same Taste, and contains the same Principles, but less of Salt. The best Sort comes from Germany, Languedoc and Provence. White Tartar is purified by Boiling in Water, and straining it thro' woollen Bags, then evaporating and cristallizing the Liquor, which makes what we call Crystals of Tartar. The Scum or Cream that floats at top during the Evaporation, is call'd Cream of Tartar; this when dry'd, is confounded with the Crystals, which ought to be in little clear shining Bodies, pure, white, heavy and dry, of a sharpish agreeable Taste; it is us'd to blanch Wax, and also to clarify Whey, a Dram being sufficient for a Pint. This white Tartar yields a great deal of effential acid Salt and fome Oil.

Red Tartar yields less Salt than White, but more Oil and Earth: They both make tries, that there is not any other fo fre-Vinegars when dissolv'd in Wine ; the Crystals differ not from the Tartar it self, but that they contain less earthy Parts in them. All the Tartars from Wine are aperitive, and fomething laxative, open Obstructions, and excite to Urine, allay or abate Fevers, and are proper to dissolve tough Flegm in the Glands; the Dose of Tartar depurated is from a Dram to three Drams.

72. Of German Black.

Pomet. TATE have brought from Mayence, Francfort, and Strasburg, a Black

which is separated by Fermentation, and after having been dry'd, ground in a Mill, harden'd to a stony Substance on the Sides and fifted, having burnt Ivory, Bones, or of the Cask. There are two Sorts of Tar- Peach-Stones added to it: and when they tar, one call'd white Tartar, that is made are all well-ground and mix'd together, they from white Wine; and the other red Tartar, make what we call German Black, which the moister it looks of the most shining Colour being made of Ivory Black, the Better it is, and exceeds that made of Bones and Peach-Stones, and the worst Sort of Lees, for it is on the Goodness of the Lee, that the Fineness of the Colour depends. There are other Blacks made at Troyes, Orleans and Paris, which bear the Name of the Place where they are made. They are all of 'em of no other Use than for the Rolling-Press Printers.

73. Of Figs.

FIGS are Fruit that are of feve- Pomet. ral Colours; to wit, the green, the violet, the white, and other Colours:

but of all the Sorts, we fell none but the violet and the common Figs. When Figs are ripe, the People of Provence gather them and dry 'em upon Sieves and Hurdles. We have three Sorts of Figs in Provence, viz: The violet, the Marfeilles, and another thick fat Fig; the violet Figs ought to be large, dry'd, fresh and well blown; those of Marfeilles small, while new, dry but not rotten or decay'd, and the fat Figs as like those of

Marseilles as possible.

The Fig-Tree is so familiar in hor Counquently to be met with, either about their Houses or in the Fields. It has a large Trunk full of Branches spreading largely abroad the Wood is very spungy, of a white Colour, pretty much resembling Vine Leaves but a great deal larger, and pouring forth a Quantity of milky Juice. The Fruit come from the Wing of the Leaves, being three corner'd, and of the Shape of a Pear, in which are contain'd Flowers by the fingula Contrivance of Nature, as Valerius Cordu has first of all observ'd; these Flowers are fingle leav'd, fmall concave like a Spoon ending in a small Point, and of a whirish Colour, inclining to a Purple, with a Pointa in Stone and Powder, which is made from or Rudiment of a Seed in the Cavity of th Flower

call'd a Fig; being outwardly of a greenish Colour inclining to a violet: To which Colour the Fig of Marseilles are esteem'd next; These being ripe and dry, stop Catarrhs or Defluxions falling upon the Uvula and Wind-pipe, and qualify the acrimonious Serum, trickling down upon the Lungs. In Portugal especially in the Kingdom of Algarve, there is a hor, fiery, inflammable Spirit drawn from Figs by Distillation, which they use instead of Aqua Vitæ or Brandy.

These several Preparations of Figs are good, Take four Ounces of dry'd Figs, Boil them in a sufficient Quantity of fair Water, and make a Ptilan to be aromatiz'd with some Drops of Oil of Sassafras, or the like, to be given in the Small Pox, Measles and Afthma: Or, Take fat Figs two Ounces, bruise and insuse them in a Pint and half of Spirit of Wine a whole Day, then Strain out the Liquor, burn it away to the Confistence of a Syrup, to be given in a Cough, Hoarfeof the Roots of Marsh-Mallows and White-Lillies of each two Ounces; of Mallows, Violets and Pellitory Leaves, of each a Handful; Fenugreek-Seeds two Ounces, twenty fat Figs, Flowers of Camomile and Melilot one Pugil, Boil them in a sufficient Quantity of Water, and then pulping or forcing them thro' a Hair-Sieve, add of the Ointment of Marsh-Mallows two Ounces, of the Oil of Worms one, and make a Pultife to help Suppuration.

Ficus, Ficus Communis, or Ficus Lemery. Sativa, The Fig-Tree is of a moderate Height, whose Stalk is not Braight, but the Bark is smoother than ordinary Trees, of an Ash-colour, the Wood is spungy and soft, and white within; the Leaves are large, broad, thick, cut in five Divisions or angular Parts, like those of the Vine, but much larger and harder, rougher and blacker, hanging by a Stalk that throws out a milky Liquor when broke. This Tree neither bears Flower nor Husk or Shell that appear; but many Botanists pretend that the Flowers are enclos'd in the Fruit, and that are found in the young Figs.

Flower, and dwindling away into a Fruit creas'd, but yet not ripe, Groffus seu grofsa; and when entirely ripe, Ficus: It grows of the Size and Shape of a Pear, of a greenish Colour, whitish without, and reddish within; fleshy, succulent, viscous, and of a sweet delicious Tafte: it affords a Flat and almost round Seed. The Roots of the Tree are numerous, long, fair, hard to break, supply'd with Filaments of a yellow Colour. They propagate the Figs presently in temperate Climes, but the best grow in Languedoc, in Provence, and other hot Countries. There are two Species which differ in Figure, Size, Colour and Tafte; They are all hard of Digestion because of their viscous and tough Substance. When they are dry'd in an Oven, they are call'd dry'd Figs, Caricae or Ficus Passa, then they serve for Food and Physick, being easie of Digestion since they loft great store of their viscous Flegm by the Heat of the Oven in Drying: Figs yield a great deal of Oil, and effential Salt: These fosten the Acrimony of the Humours, fortific ness and Shortness of Breath: Or elle, Take or ftrengthen the Breaft, hasten the Birth, ease Diseases of the Kidneys or Bladder being taken in Decoctions, or else they relieve fore Mouths and Throats in Gargles, or apply'd externally to any Part, give Ease and promote Suppuration.

Ficus Indica, vel Ficus Indica foliis Mali Cotonei similibus, fructu ficubus simili in Goa, according to C. Baubinus. This is a Tree that grows near Goa in India; it is large, very high, and thick, it extends its Branches very wide, from whence arise Fibres like those of the Cuscuta, of a golden Colour, which being arrived or come from the Ground they grow strong and take Root by little and little from the great Trees, which stretch themselves over all the New filaments, that adhere likewise to the Earth and produce Trees after the same manner, and so on perpetually; so that these Figs multiply in such a manner as to fill a large Country with Trees of fuch a large Kind and fuch a Height, that they form a spacious massy Forest, which becomes a great Relief and advantagious Shade against the Sun-Beams. The Leaves of the young Branches they are certain Threads like the Stamina that are like those of the Quince, green with at, and white and lanuginous underneath, and This Fruit, when no bigger than a Pea, is ferve for Food for the Elephants; the Fruit call'd Groffulus; when fomething larger en- of the small Fig is made like ours, but red

as Blood without and within, sweet and good Prune Tree of a moderate Height and Size to eat, but nothing like the European Fig. The Indian Fig is moistening, cooling, pe-Ctoral, and the Bark of the Tree serves for Cloathing.

74, Of Brignole Prunes and Prunelles.

Pomet. BEsides Figs, we have considerable Dealings in Prunes of Brignole, which are brought from Provence, especially Brignole, a little Village near St. Maximin, from whence it takes its Surname. These Prunes are brought in long Cases, but more usually in Boxes that are cover'd with white Paper artificially cut; these Prunes or Prunelles ought to be dry, fair and fleshy, and when the Paper is cut, if the Cover be dry, it is a

certain Sign that they are good.

We sell Abundance of Prunes and Prunelles, as the Large and the Small, St. Catherine Prunes, and the little black Damask and St. Julian Prunelles, which we have from St. Maure's, Chinon, and other Parts of Touraine. Besides we sell a great deal of Prunelles which are longish and come from Bordeaux, and several others from Monturel, Perdrigon, Imperial, and generally all Sorts of Fruits, dry and liquid, which we have brought from other Parts, but especially Tours, as dry'd Pears, Apples and Cherries; with Variety of others that are kept for Eating in Lent: The Choice of all these Fruits is to have them New in Boxes, or little Chests, that are lined within and cover'd without.

Prunum or Prune, is a Fruit of Lemery. several Kinds, according to the different Places where it grows, both as to Shape, Size, Colour and Tafte; but they are all so well known I shall only mention the black Damask Prune, which we use in Physick, call'd in Latin, Pruna parva dulcia atro cerulea, the little, blewish, black sweet Prune; they are of a moderate Size, round, fleshy, cover'd with a black Skin; their Sub- of two Kinds, one Domestick and stance red, fucculent, not sticking to the the other Wild. The Domestick is Stone, but of a good Smell and sweet plea- call'd Castanea Sativa by Casp. Baubin, this fant Taste; The Stone is small, longish, sto- is a great spreading Tree at this Day cultiny, enclosing a little Kernel almost round or vated by all People as well for its Beauty as bitter. These Prunes grow upon a Kind of we may be excus'd a Description. The wild

call'd Prunus Sativa fructu parvo dulci atroceruleo. The Leaves are longish, pretty broad, flightly indented on the Sides; the Flower is compos'd of five Leaves, dispos'd like a Rose of a white Colour; this Tree is cultivated in the Gardens.

The Damask Prunes ripen towards Autumn, and are to be chosen pretty large, well fed, ripe, new gather'd, of a good Tafte and Smell; they yield a great deal of Flegm, Oil and effential Salt. They dry great Quantities of these Prunes in their Ovens about Touraine and near Bourdeaux, and disperse 'em all over France and other Parts in the Winter; that which is call'd the Prunelle ought to be taken fresh, fleshy, dry, foft and of a good Tafte. Fresh or dry'd Damask Prunes are moistening, emollient. laxative being taken in Infusion, Decoction, or eaten in Substance. They find sometimes upon some Sorts of Prunes, a white, shining, transparent Gum, which the Merchants mix fometimes therewith, it being very like it in Colour and Virtue; it is good for the Stone or Stone Colick, given in Powder or Mucilage.

75. Of the Large Chesnut, call'd by the French Marons.

THese are Fruit which we trade in Pomets as well as the Limogin Chefnuts; but as they are very common, I shall not infift upon a Description, only inform you, that the best Sort are those about Lyons and the Vivarez; which when good, shou'd be large, fresh, firm and Ash-colour'd. As to the small Chesnut, they come near to the large, but only that they are clearer and much redder. Their Use is to ear as well as the other Chefnuts, as all the World knows: Besides these are of some use in Physick, because they are more astringent.

Castanea, or the Chesnut Tree, is Lemery. oval, of an agreeable Taste, inclining to be its Profit, and so well known to every Body, Chefnut





Chesnut is call'd Castanea Sylvestris, que peculiariter Castanea, or Castanea Minores, the Lesser Chesnut; this differs no otherwise from the former, but as it grows wild instead of being improv'd, is much less in Size, and the Fruit smaller. It grows plentifully in the Limosin, in Languedoc, and supports a great many Persons in the World and especially the Poor. The large Sort of Chefnuts that grow in the hot Countries are call'd Marona or Marons, most of which are brought from the Vivarez and the Limosin: Chuse such as are largest, the most fieshy, and of the best Nutriment; they all abound with a good deal of Oil and a little Salt. The Chefnuts, especially the small, are astringent, and the Rind is us'd to stop the Fluor Albus in Women.

76. Of the Oak.

THE Oak is a Tree known to all the World, as well because Pomet. of its Durableness, as for the different Uses made of it. This Tree was for its Virtue, Strength, Firmness and Duration, by the Ancients dedicated to Jupiter. Some pretend that this Tree is a mortal Enemy to the Olive and the Walnut Tree; so that neither of them can live near it.

The first Thing and the most considerable we have from the Oak is the Miffeltoe, which is an Excrelcence that is found clinging to the Top of the faid Tree. This Production appears extraordinary, in that the Oaks do not produce the Miffeltoe in all Places : There is little that I know like that which is met with betwixt Rome and Loretto, especially near a little Village nam'd Foligni, which is about the Mid-way. This Excrescence refembles the Branches of Trees, and is of a folid, heavy Substance, of a reddish Brown outwardly, and of a yellowish White within, where is found a Sort of Turnfol.

The Branches that are so hard and compact, bear several little Sprigs which intermingle with each other, and from whence arise a great many longish, thick Leaves, that

us'd to make Glue of. The Miffeltos furnish'd with its Leaves continues always green during the Time it remains upon the Tree. Chuse the largest, heaviest, and best fed: You may know if it be true by the deep Colour, and the Turnfol that is within, but the furest Way is to see that some Part of the Oak hangs to it. They attribute a great many Virtues to the Misseltoe of the Oak, and the Ancients revered it, and held it sacred as well as the Tree it self. Julius Cafar and Pliny say, that the Druids affembled themselves under these Trees to perform their Devotion. There being a Country we call at this Day the Druids Town near Chartres, where it may be seen that the Oak bears the Misseltoe in France.

This Miffeltoe taken inwardly, is esteem'd an excellent Remedy against the Palfy, Apoplexy and Falling-Sickness. Because of its extraordinary fine Virtues, which wou'd be too many to enumerate, the Italians treat of it very largely under the Name of the Wood

of the Holy Cross.

The second Thing we have from the Oak, is a little Plant we call Polypody of the Oak, which is like what we have from Walls: This Sort of Plant grows from places where the Branches of the Oak are forked, by means of some small Earth that lights there, and the Water which drops upon it: It grows likewise upon the Stump of the said Tree; we rarely use this Polypody, because it is not so proper, since that is much better which grows upon old Walls, which is the Sort that is brought to us about Paris. Chuse fuch as is new, plump, dry, brittle, of a reddish tawny Colour on the Outside, and greenish within; the Taste being sweet and Sugar-like, enclining fomething to a Liquorice Taste.

Quercus Vulgaris, the Common Oak, is a thick, straight, durable Tree, spreading its Branches wide; the Trunk is cover'd with a thick rugged Bark; the Leaves are large, longish, and broad, deep slash'd or indented, hanging upon short Stalks: The Flowers are in long Shells or Husks, compos'd of little Threads hanging upon one anoare semi-circular, of a pale Green, and bear ther by a fine Fibre or String: These Husks little whitish Berries, altogether resembling our leave no Fruit behind them, the Fruit growing little white Currans; and these Berries con- in different Parts, which are the Acorns; that tain a viscous Humour, which the Ancients are about the Size of the Olive of an Oval

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is towards the Tree; each being contain'd in a hard grey Cup, call'd in Latin, Cupula Treatife of his printed at Lyons. fen Calyx, This Acorn is cover'd with a hard Rind, that is smooth and shining; green at First, but yellowish as it grows riper : Within this Rind we met with a Sort of a Kernel, or hard fleshy Seed, compos'd of two Lobes. The Acorns hang upon the Tree by long or short Hender Stalks, and

their Tafte is aftringent.

All the Parts of the Oak contain in them a good deal of Oil and Effential Salt. The Leaves and Bark of the Oak are aftringent, refolving, proper in the Sciatica, Gout and Rheumatisms, being us'd in hot Fomentations; they stop Fluxes of the Belly and Hemorrhages, being taken in Decoction. The Acorn, call'd in Latin Glans Quercina, is likewise imploy'd in Medicine; chuse fuch as are large and plump, feparated from the Rind, and dry'd gently; but take cate of Worms, to which they are subject, let 'em be reduc'd to Powder before using; they are aftringent, and proper to appeale Wind-Colicks, and the Fluxes of Women newly delivered.

77. Of Oil of Acorns.

PEfides the Polipody, the Oak produces Acorns which are its proper Fruit, and every Body pretend to make and fell the Oil; but as I never faw any to this Day, I shall fay nothing of it, but that all the Oil of Acorns that the People of Provence fend us, is nothing but the Ben or Nut Oil, in which the Acorn has been infus'd. Blood; and the Powder of the crude Galls The great Rarity of this Oil, is the Reason may be given inwardly from ten Grains to that the World attributes such great Virtues a Scruple, to all the Purposes aforesaid. to it, just like that of the true Oil of Talck: There may be a true Oil of Acorns drawn Turkey a little reddish Fruit, of the Bigness by the Retort, but it will be black, and of an ill Smell.

The Oak produces over and above the Acorn, the Misseltoe, and Polypody, a Moss which is what we call Ufnea, and enters the Compositions of the Cyprus Powders; those of Franchipane and Le Mareshale, or the Farriers Powder, which we have brought from Montpellier. The true Description of making these Powders is unknown to me, can say no more of it.

or cylindrical Figure, tied at that End that which obliges me to refer the Reader to a Defeription made by the Sieur Barbe in a little

78. Of Galls.

Galls are the Fruit of a Kind of Oak, that grows plentifully in the Levant, especially about Aleppo and Tripoli, which are those we call Aleppo and Tripoli Galls: Besides, they are brought from Smirna. There are some grow in France, in Provence and Gafcoigny, but much inferior to those of the Levant, in that they are usually reddish, light, and altogether smooth; and those of the Levant are prickly, from whence they are denominated the prickly Galls, more heavy, blackish, or greenish, or whitish. The Variety of these Fruit is the Reason why they are put to different Uses. Those of Aleppo and Tripoli are for dying Black, and making Ink; the White to dye or frain Linnen, and the Light French Galls for Dying Silk: All the Sorts are of some Use in Physick, especially the more aftringent and ftyptick they are; being good to draw together, and fasten loose Parts, to dry up Rheums and other Fluxes, especially fuch as fall upon the Gums, Almonds of the Throat, and other Parts of the Mouth: us'd in a Decoction in Water or Wine they cure Diarrheas, Dysenteries, and are good against all Weakness of the Bowels. A Fumigation in Claret is good for Women to fit upon, that are troubled with a Flux of Reds or Whites, or falling down of the Womb; as also of the Fundament: The Ashes quenched in Wine or Vinegar being apply'd stanch

There grows upon a Species of Oak in of a Hazel-Nut, call'd by the Turk, Baz dyendge, whose Figure is represented by the Impression of the Oak. The Levantines especially those of Aleppo, take a hundred Drams of Cochineal, which they call Cormeti fifty Drams of Bazdyendge, and fifty Dram of Tartar; and after powdering them all they make a very fine Scarlet. This Fruit very scarce in France, which makes me

Lemery. crescence which grows upon an

Oak in the Levant, whose Origine proceeds from this, that certain Infects bite the tenderest Part of the Tree; fo that an Humour flows out into a Shell or Bladder, which fills and hardens as it grows on. There are feveral Sorts of Galls, that differ according to their Size, Shape, or Colour, by the Surface of them, being smooth or rugged; they are usually round, and as big as the common Nut; fome as the Filbert, rough or prickly, whire, green or black? The best come from Aleppo and Tripoli; chuse the best fed and weightest.

There are also Galls grow in Gascoigny, and in Provence, which differ as those of the Levant do; they being fmooth, light, reddifh, and afford a lefs Tincture: They are aftringent, and enter feveral medicinal Compositions; as Plaisters, Oyntments, Injecti-

ons, Pomentations, &c.

Polypodium, or common Polypody, hath a Root taking a very flight and fuperficial Hold of the Earth; it is pithy and brittle, about the third Part of an Inch thick; within it is of a pale green Colour, but outwardly a little reddish, and cover'd over with fine thin Scales when it is fresh and green; but being dry, it becomes of a more red Colour; it is knotty, or full of round Knobs, and adorn'd with several small Filaments like Hairs; its Pith is fweetish, with somewhat of a sharp, austere, or styprick Taste. The Leaves spring out of the Knots, or hollow Knobs of the Roots; they are fingle, about nine Inches in Length, and parted into feveral Jaggs or Scollops, cut close into the Ribs; they are sharp-pointed, of a light green Colour, and growing alternatively opposite to one another: It bears no Flowers, but there arife several small Knobs like Blisters, upon the lower or under Part of the uppermost Jaggs of the Leaves, rank'd in a double Order; they are round, and about the fixth Part of an Inch thick, confisting of a fine Dust; that is first a little yellowish, and turns of a bright golden Colour: Every and membranous, which when ripe breaks quintida. into two equal Parts, and pours forth feve-

Galla, or the Gall-Nut, is an Ex- ral Seeds fo small, that they can scarcely be discern'd by the naked Eye.

Polypody grows upon Rocks, old Walls, and ancient decay'd Trees; but that which grows upon old Oaks is reckon'd the Best : upon which Account Polypody of the Oak is commonly prescrib'd, and is rank'd among the purging Medicines; yet Dodonæus denies its cathartick Quality; neither ought we to diffemble the Matter, for the Decoction of it fcarcely moves the Belly, but the Powder of it does something, being given from one Dram to two Drams.

This Root contains a great deal of Oil, and no small Quantity of an acid Flegm; but this is, as it were, suffocated by the Oil, which is the Caufe that it produces no Alteration of Colour on the blue Paper, when it is dip'd in the Infusion of it. There is likewife a large Quantity of Earth extracted from Polypody by a chymical Refolution; its from this Earth that its styptick and brackish Taste proceeds: The Roots are very properly administred in all Distempers proceeding from a faltish Disposition of the Blood; fuch as the Scurvy, Rickets, and Hypochondriack Paffions: They also help to abate an inveterate Cough, when it is attended with a faltish Spittle. They are prefcrib'd in Potions and Apozems, from one Ounce to two.

Take of Polypody of the Oak two Ounces, Salt of Prunella one Dram; infuse them in a Quart of warm Water; strain it, to be taken by Cupfuls or Spoonfuls, as an Apozem. Or take Polypody of the Oak one Ounce and half; Elecampane-Roots three Ounces: Infuse them all Night in a Quart of warmWater; in the strain'd Liquor add two Ounces of Calabrian Manna; mix and make a Ptisan to be drank. Take of the Decoction of Polypody-Roots fix Ounces, in which infuse two Drams of Sena-Leaves; in the strain'd Liquor dissolve the Electuary of Diacarthamum, three Drams; mix and make a purging Potion. Polypody-Roots are us'd in the Catholick Electuary; in Lenitive Electuary, the Confection of Hamech, the Panchy-Grain of this Dust is a Sort of imall Coffin, magog Extract of Hartman; Quercetan's or Seed-Vessel, being of a round Figure, Pills of Tartar and in the Hiera of Colo79. Of Agarick.

Garick is an Excrescence that is A found upon the Trunks and large Branches of several Trees, but chiefly upon the Larch Tree, call'd by the Latins, Larix, and upon feveral Sorts of Oaks; but the best of all ought to be such as is white, light, tender, brittle, and of a bitter Tafte, pungent, and a little ftyptick; and this is the Agarick the Ancients use to call the Female: As for that which is term'd the Male, it is usually heavy, yellowish and woody, which ought entirely to be rejected for physical Uses. The best Agarick is that from the Levant, it being abundantly better than what comes from Savoy or Dauphiny. We have likewise some brought from Holland, that is rasp'd and blanch'd on the Outfide with Chalk: In short, none is fit for Use but the Levant Agarick.

Agarick was a Medicine fo familiar to the Ancients, that they made use of it not only for Purging Flegm, but likewise in all Distempers proceeding from gross Humours and Obstructions; such as the Epilepsy, Vertigo, or Giddiness of the Head; Madness, Melancholy, Asthma, and Distempers incident to the Stomach, and the rest of that Kind; yet they complain'd that it weaken'd the Bowels, and purged :00 churlishly; upon which Account Galen steep'd the Powder of it with Ginger, and gave it to a Dram in Oxymel or Honey of Squills. It is prescrib'd in Powder, tho' rarely from a Dram to two; but in Decoction, or Infusion, from two Drams to half an Ounce.

By a Chymical Diffolution it paffeth almost all away into Oil; it yields no volatile Salt, but abounds with a Sort of scaly Earth, and an acid Flegm, from whence the Insuston of Agarick makes the blue Paper of a purple Colour. Hence it clearly appears, that it ought to be corrected with Cloves, Cinamon, Mace, Mint, Wormwood, and others of this Kind. Its Slowness in Working may be help'd or promoted with Scammony and Calomel; or it may be wet in some purging Decoction made of Asarabacca, Sena, and other Purgatives, and then dry'd again, and formed into Lozenges,

adding Balsam of Peru, or Oil of Cinamon, to correct it.

Lozenges are commonly prepared in the Shops; but we must not forget to take Notice, that Lustianus admonishes us to make use of the Troches of Agarick or Lozenges, while they are fresh and new made, least their Virtue be weaken'd by long keeping. Besides the Troches, there is an Extract and Rosin prepared from Agarick; it is likewise used in the Confection of Hamech, Hiera Piera, the bessed Extract and Pills of Euphorbium.

80. Of the Confection of Hamech.

A Garick being one of the Ingredients of this Composition, Pomet. which we have brought from Monepellier, together with Confect of Hyacinth and Alkermes, Treacle and Mithridate; I thought it not improper to mention it in this Place, tho' it is almost out of Practice in some Countries; it remains a good Medicine still, if faithfully prepared; however, I shall only give you the Receipt, and leave you to consult the Method of preparing it, in the Dispensatories of Mr. Charas and others.

Take Polypody of the Oak, Raisins stoned, Damask Prunes, of each four Ounces; Citron, Chebulick, and Indian Mirobalans, Violet Seed, Coloquintida, white Agarick, Sena, of each two Ounces; Wormwood, Thyme, of each one Ounce; red Roses, Aniseed and Fennil, of each fix Drams; Juice of Fumitory depurated, a Quart; Sugar and pure Honey, of each three Pounds; Cassia and Tamarindes pulp'd, and pure Manna, of each four Ounces; Rubarb, white Agarick, Alexandrian Sena, of each fix Ounces; the five Myrobalans and Epithymum, of each fix Ounces; Cinamon and Ginger, of each two Drams: Mix all together according to Art, and make a soft Electuary, working it well, and preparing it truly, and it will keep a long Time. This Confect, thus artfully made, is of a shining Black, and a good Confiftence: This, with the other before-mentioned, we reckon the five great Compositions of the Shops.

the People of that Country tear from the Wood, use to polish their Works withal.

We fell likewise dry'd Mushromes, and black Rocks. This Earth is produc'd by the Winds Sow-Bread, which are brought from Pro- which carry the Earth upon the Rocks; and vence and Languedoc, with the Bulbs of by the Rain and the Sun this Earth is calcined Tube-rose, Ranunculus's and Junquils, after being wet: The Use of it is to make which come from Italy, Provence, and some Orseille, of which Mention was made in the from Constantinople, together with Jews- Chapter of Turnsol. We sell besides a cer-Ears, &c. And they bring us from St. Fleur tain Herb, which we call Preffe, and the in Auvergne, a certain grey Earth, in little Botanist's Equisetum, or Horsetail; which Shells, which is what we call Perelle, and the Cabinet-Makers, and other Artificers in

BOOK the Eighth.

Of GUMS.

PREFACE.

E destinguish Gums into two Sorts; namely, such as are aqueous, and such as are refinous: We understand by the aqueous Gums, those that will dissolve in Water, Wine, or other the like Liquids; as Manna, Gum Gutta or Gamboge; and by the Resinous, those that will not dissolve but in Oil, as Gum Elemy, Tacamahaca, and the like, as you will find by the subsequent Discourse. There are some who will add to these two Sorts a Third, which they call the Irregular, and which they pretend will, without Trouble, dissolve in Water or Oil as Myrrh and Benjamin. If Seeds, Roots, Woods, Barks, Flowers, Leaves and Fruits, are so difficult to distinguish one from the other, it cannot be less to have a perfect Understanding of Gums; in which Traffick several Nations have made it their Business to impose upon us.

1. Of the Manna with which God fed the Israelites in the Desert.

HEN the Israelites had pass'd the red Sea in a miraculous Manner, nemies, the Famine pursued them into the the Time the Hebranes remain'd in the De-

Desert, and they murmur'd against Moses : But that faithful Minister of God, made his Supplication to Heaven, and God delay'd. not to give them Food; for there fell a great Storm of Hail in their Camp, and the neme Morning it rained Manna upon the Earth, and were deliver'd from their E- which was continued for forty Years; during General History of DRUGGS.

fert. The People were presently surpriz'd when they beheld the Earth all cover'd with a Kind of a Grain they were Strangers to: And the Scripture informs us, that not knowing what it was, they cry'd out with Admiration. Man bu! Quid est boc? What is this? But Moses told them it was the Bread of God that was fent from Heaven, and appointed them to come every Morning before Sun-rife, to gather this Divine Food; because, when the Day was advanc'd, there

melted away after the Rifing of the Sun. But the Jewish, as well as the Christian Interpreters, do not agree about a great many Passages relating to this Manna. They are divided about the Etymology of the Word Manna: Some will have it that it comes from the Hebrew Word Man bu, which the Fews pronounc'd when they saw the Earth cover'd with little white Grain or Seeds which fell during the Night; nevertheless several others, of which Number Buxtorf is one, fay that the Word Manna fignifies Food prepar'd, as if he shou'd say the Food which God had prepared for his People. Several maintain, that this Manna was the same with the purging Manna now us'd in Phyfick; that is to fay, a Liquor which falls in the Nature of Dew, and which is congeal'd into little Grains, like those of Coriander: Valesius, Physician to the Emperor Charles the Fifth, is of this Opinion. Cornelius a Lapide, who was a very Learned Few, faid, in his Commentary upon Exodus, that he had seen in Poland little Seeds like Millet, something long and reddish, which fell, during the serene Nights, in June and July, and that they eat it when boiled; it having the same Taste as that made from the Panix: And I have been confirm'd in this by a Friend of mine, who was a long Time in Poland, especially on the Side of Silefia, where this Dew falls plentifully: And I am affur'd, having also seen on the Heights of Dauphiny, at the Foot of the Mountain of Geneva, about four a-Clock in the Morning, a large Quantity of this Manna, which I have taken presently, or at first Sight, for a Seed; but after having tafted it, I found, by its sweet sugary Taste, that it was a Dew like that spoke of in the Holy Scriptures; for as soon us the Sun was up it dissolved.

Those which hold that the Manna with which God fed the Jews in the Defert, was not the same with that us'd in Physick, say, that that which purges must weaken and cannot pourish; but Vossius answers this Difficulty, and fays that the Manna differs not at all in its Nature, but as to its Accidents, from that used in Physick; and this Difference arises from the Preparation which the Angels made in sweetning and purging this Dew from the groffer Parts, that the comwas not Time to gather the Manna, which mon Manna is loaded with, in order to make Bread of it by boiling, as they do by that which falls in Poland, in the Months of June and July. We see Men daily who make their Food out of strong Poisons, by a continued Custom and Habit; and Wine that shall be agreeable to Persons when fick, shall be offensive to the very same Persons when well. Valesius does not doubt in the least, but that the Manna in the Deserts did directly purge the Hebrews, who were replete with grofs Humours, which they collected by the Use of Garlick, Leeks and Onions, of which they fed, during their Abode in Egypt; and after they had been duly purged, that the Manna became nutritive, especially after having been prepar'd or purified by the Angels; for it is expresly faid, in Pfalm lxxix. Verf. 23, 24, & 25. God commanded the Clouds from on high, and he opened the Doors of Heaven; and had rained down Manna upon them to eat, and had given them of the Corn of Heaven: Man did eat Angels Food. And this Explication appears very agreeable to the Hebrew Word Manna, which fignifies Nourishment, or Food prepar'd; as it is infer'd from the 31st Verle of the 11th Chapter of Exodus, where it is faid ; And the Tafte of Manna was like Wafers made with Honey.

2. Of Manna.

Hat which we call, and fell now by the Name of Manna, Pomet. is a white Crystalline Liquor that flows without Incision, and with the Incision that is made upon wild and domestick Ashes, which the Italians call Fraxini, and Orni, that grow plentifully in Calabria, Sicily, but chiefly at Galliopoli, from whence almost all the Manna we now fell is brought. We





We fell several Kinds by the Name of Calabrian Manne; The first and best Sort is the Manna of Mount St. Angelo, but that is difficult to be got, and very little demanded by People who do not understand it: The second is the Sicilian Manna, which is usually white, dry, and teary, but very subject to be full of Chesnut or Fig-leaves. The third Sort of Manna, is that which is improperly call'd Brianson Manna, which is dry'd from a white Matter that is decay'd and very apt to be full of Dirt.

The Arabians look'd upon Manna to be a Sort of airy Honey, or a Dew that falls from the Heavens: And this was a common received Opinion for many Ages; but Angelus Sala, and Bartholomaus ab Urbe veteri two Franciscan Friars; who in 1545, publish'd Commentaries upon Mesve, were the first that I know of that in their Writings affirmed Manna to be truly the concreted Juice of the Ash-Tree, as well the Common as of the Wild, generally call'd Quickbean. Donatus Antonius ab alto mari, a Physician and Philosopher of Naples, who flourish'd about the Year 1685, has confirmed this Opi-

nion, by feveral Observations.

feveral Days and Nights together all over close with Sheets, so that no Dew cou'd possibly come at them; yet he has found same Liquor flows out of the Bark of the melt and lose its whiteness. Ash when it is wounded: and it is very ob-Tear; and when they have left it, the Manna Bark of the Ash-Tree, even to the Wood's

fweats out of the small Wounds that they have made. 5thly, Wild Ashes being cut . down by Coopers on purpose to make Hoops for Wine-Vessels, it often happens that no small Quantity of Manna flows out of their Stocks and Boughs, being cloven or split lengthways, and expos'd to the Heat of the Sun. 6thly, Such as are imploy'd in the making of Charcoal, confidently affure us, That they have often observ'd Manna sweat our of the Ash-wood, after it has been kind-

led and thrown into the Fire.

The same Author further takes Notice that the same Trees yield Manna every Year, but not all of them indifferently; upon which Account there are a great many that make it their Business for the sake of Gain, to bring up these Trees: Yet there are in these Places Trees of the same Kind, that afford no Manna. Moreover, the same Author tells us, That the Manna runs chiefly out of that Part where the Footstalks of the Leaves are inserted into the Branches; for in these Parts the Vessels being thinner and finer, are the more easily divided; wherefore he does with very good Reason observe, that Manna never drops out of the Leaves of this Tree, For First, having cover'd Ash-Trees for unless it is at Noon, or about the hottest Time of the Day; because there is a large Degree of Heat required for the fetching of this Juice out of its proper Vessels, and con-Manna upon these Trees so cover'd, under veying or translating it unto the distant the Sheets, when at the same Time not the Leaves. In the Kingdom of Naples and Sileast Sign or Impression of any Dew or Ho- cily, Manna naturally slows and drops out ney was to be seen, upon the upper Part of of the Leaves of the aforesaid Trees under the Sheets. 2dly, All those who make it the Form of a clear Liquor, and afterwards their Business to gather Manna, freely own thickens and becomes a little hard; but espeand confess that it drops out again of the cially in the Month of June, when the Weasame places of the Trees, from whence it ther is very hot and dry; next Day with a was before taken, and by degrees coagu- Knife they scrape and pick it off the Leaves, lates with the Heat of the Sun. 3dly, In left it shou'd be dissolv'd and wash'd away by the Trunks of the Ash-Trees, little Bladders the falling of Rains, or the Moistness and or as it were Blifters are often observed, or Dampnels of Air; then they carefully put it rife near the Bark, which are fill'd with a up in Veffels, well glazed; and after that Liquor of a white Colour and sweet Taste, they expose it to the Heat of the Sun, till which afterwards thickening, is turn'd into a fuch time as it will not flick, nor cleave any very good Sort of Manna. 4thly, The very more to the Fingers; otherwise it wou'd

Manna flows spontaneously from the 21st of servable, that Grashoppers and other small June to the End of July, unless Rains happen Infects, very often bore through the Bark to fall, after the Month of July, the Country of this Tree, that they may fuck this fweet People or Peafants make an Incition into the from whence the Liquor of Manna continues to flow and drop, from Noon time to fix a Clock in the Evening incessantly, which afterwards runs together into thick Lumps or Clots, but of a darkish Colour. This spontaneous Manna, by the Italians is call'd Manna Difronda, upon account that it drops from the Leaves of the Ash-Tree, like Sweat in the Dog-days or Heat of Summer. But that Sort of concreted Manna, that proceeds from the Bark of those Trees being wounded, is call'd by the Italians, Sporfatella and Stoifata or Manna Dicorpa. This Opinion of Altomarus has been defended by Gropius, Labellius Casalpinus, Costaus, Cornelius Consentinus. Boccone, and others; who have given more Credit to their Eyes, than to Authority.

Manna is approv'd of, when it is fat and a little clear, of a sweet Tafte like Sugar, which is biting to the Tongue. Chuse that which is fresh and light, from a white Colour inclining to be a little brown, and when the Clots or Lumps being broken, look as if they were sprinkled with Syrup. That is to be rejected which is dry, and as it were spongy, without any manner of biting Taste; and that is good for nothing, that is nauseous,

impure and adulterated.

The Calabrian Manna is esteem'd; but befides that, there is a Sort of it fold in the Shops, call'd the Larch or Brianson Manna; because it flows from Larch Trees growing nigh Brianson in Dauphiny, but little us'd because it is much inferior to the Neapolitan Manna. Calabrian Manna purges moderately, from one Ounce to two or three; it allays the Acrimony of the Humours, and is very useful in Bilious Distempers, and others attended with Inflammations, fuch as the Hæmorrhoides, Pleurify and Peripneumony. It is seldom prescrib'd dry, or by it self, but very often in Potions, &c. As for Example: Take an Ounce or two of this Manna, and diffolve much esteem'd, being apt to grow brown it in five or fix Ounces of warm Water, Broth, if kept any Time, yet nothing less Pur-Whey, or the like; to which you may add, gative. if you please, an Ounce of Syrup of Succory with Rubarb, of Roses purgative or Violets for a Dose. When Patients are afflicted with Vomiting or a Disposition to it, Take of Calabrian Manna two or three Ounces, Tartar Emetick eight or ten Grains, dis- the Day, and extends it self all over the solve them in a Quart of Whey, and let the Leaf, but the Drops are bigger at the Stalk Patient drink this by Cup-fulls, now and than at the End or Point of the Leaf, and then taking a little warm Broth betwixt.

Monfieur Charas and others likewife agree. that the true Manna is not found upon all Plants, Trees, Rocks, and Earths promifcuously as some believe, but only upon the ordinary Fraxinus or Ash-Tree, and upon the Ornus or Wild Ash. That it is gather'd from the Ash or Wild Ash is evident; for that upon some large Tears, the very print of the Leaf. upon which they grow is to be feen, and oftentimes Ash-tree Leaves are found mix'd with it.

That which comes from the Body of the Ash, and issues voluntarily and freely, as also from the biggest Branches of the Tree, is the purest and fairest, and comes forth in a crystalline Liquor, beginning to distil in June, forming it self into Tears bigger, or leffer, as the Part of the Tree is more or less full of it; this is gather'd the next Day after it is distill'd forth, for in that space of Time it hardens by little and little, and becomes white; this if it shou'd meet with Rain and Wet, will melt and come to nothing. They take the Bark from it with a thin pointed Knife, putting it into glazed Earthen Pots or Pans, then spreading it upon white Paper, they expose it to the Sun, till it ceases to flick to the Fingers, left it should dissolve by addition of any superfluous Moisture, and lose its Whiteness: This Gathering continues about fix Weeks.

In the next Place is that which is forced, which is drawn forth when the former Manna ceases to flow voluntarily: They wound the Bark of the Trunks to the Wood it felf with sharp Instruments, and so from Noon till Evening you will see the Manna flow from those Wounds, which is sometimes clotted together at the Bottom of the Tree, like little Sticks of Wax; this they Gather the next Day after the Wounding, and it is yellower than the former, and therefore not fo

Thirdly, There is Manna of the Leaf; this flows voluntarily from the Leaf or Leaves of the Ash like little Drops of Water, and appears in the Nature of a Sweat upon the nervous Part of the Leaf, during the Heat of

harder

harden and become white in the Sun as the former, being something larger than Grains of Wheat. In August the great Leaves of the Ash will be so loaden with these Drops, as if they were cover'd with Snow: This is as purgative as any of the reft.

Manna is an excellent Purge for Children, and others that are of weak Constitutions, and abound with sharp salt Humours; it is temperate, inclining to Heat, mollifies or fofrens the Throat and Wind-Pipe, opens Obstructions of the Breast, Lungs, and other Bowels, Purges watry Humours and keeps the Belly foluble; being an excellent Thing for such as are apt to be Costive. Hoffman says, it ought not to be given crude, but boiled in some proper Vehicles not being less flatulent than Cassia, and therefore shou'd not be administred without Correctives; it is adulterated with Sugar Penids roll'd in Leaves of Herbs, as also mix'd with Sena, &c.

There is a Spirit of Manna made by Distillation in a Retort: Mr. Charas's Spirit of Manna is prepared thus: Put Manna into a Retort, filling it two Parts in three full, distill in Sand; first, with a gentle Fire, then increasing by degrees distill to Dryness, cohobate the Liquor and repeat the Distillation, so will you have a spirituous Water containing all the Best of the Manna, which is not only an excellent Sudorifick, but a wonderful Specifick against all Sorts of Agues or intermitting Fevers, giving it at the Beginning of the Fit; Dose from two Drams or more in Carduus Water. Schroder's Spirit of Manna is thus made, Dissolve Manna in May Dew, and cohobate till it sublimes to the Head of the Alembick like Snow; so the Mercury of the Manna being brought to the fluid Nature of a Spirit, becomes a Solutive for Minerals.

3. Of Brianson Manna.

HE Minna of Brianson is a white dry Manna, but as it is of no Use and little of it fold, I shall therefore not dwell long upon this Subject. This Manna flows from the large Branches of the Larix or Larch-Tree, for which Reason it is call'd Manna Laricaa, and it is to be met with plentifully n the Hills of Dauphiny, especially about Brianson, from whence it takes its Name.

Besides the Brianson Manna, there are other Sorts; the scarcest and most valuable of which is the Mastich Manna from the Levant, or that of Syria: This is a Manna, which in Colour comes near that of Calabria, and is in Grains like Mastich, whence it was fo call'd; this flows from the Cedars of Le-

banon, as hath been observ'd before.

This Manna is very scarce in France; tho' I have feen about three Ounces, which was affirm'd to me to be true, which was of the Colour and Figure already describ'd, of the Taste of a Raisin, bitter and unpleafant : As Fuchfius fays the Peafants of Mount Lebanon eat it; this Variety of Tastes probably proceeds from its Age, or the Change of the Climate: The People of Mexico eat it as we do' Bread.

4. Of Liquid Manna.

THE Liquid Manna, is a white Manna that is glewy like white Honey; it is to be met with upon certain Plants garnish'd with Leaves of a whitish Green, of the Size of that Weed that grows plentifully among their Vines in Persia, and about Aleppo and Grand Cairo, whither it is brought in Pots, and fold to the Inhabitants; who use it, as

we do Calabrian Manna.

This Liquor is very rare in France. In the Year 1683, a Friend of mine who had been in Turkey, made me a Present of about four Ounces, which I keep to this Day, and which was when given me, according to the Description I have made of it; but as Time destroys all Things, the Colour is chang'd to a Grey, and it is become a Syrup of a good Confistence, and of a reddish Brown, and that which is most remarkable, is, that the Tafte is Sweet, Sugar-like and Pleasant, and that it is not turn'd Sharp.

There is to be met with, besides, in the Asia major, upon several Trees like the Oak, a Liquid Manna, especially near Ormus, whence it is brought into the Towns in Goats Skins, where they make so considerable a Trade of it as to transport it to Goa: This Manna is of the same Figure and Colour with the former, only that it will

not keep to long.

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Manna is a white or yellowish sembling that which God rained down upon Lemery. concrete Juice, which inclines much the Ifraelites in the Delart for Food. to the Nature of Sugar or Honey, melting or dissolving easily in Water, of a sweet honey Taste, and a faint weak Smell; it flows either with Incision, or without, in the Nature of a Gum, from the Trunk and large Branches and Leaves of the Ash-Tree,

both wild and cultivated.

The finest and most pure Manna flows without Incision in June and July, when the Sun is the hottest; it drops in crystalline or fine transparent Tears, almost like Gum Mastich, some larger and some less, according to the Nature of the Soil and the Trees that it grows upon. In a Days time it hardens by the Heat and grows white, unless it happens to rain that Day, for then it is all spoil'd. They take it from the Place when it is condens'd, and dry it in the Sun again, to render it whiter and fitter for Carriage.

The second Sort of Manna is taken from the same Trees in August and September, when the Heat of the Sun begins to decrease, then they make Incisions into the Bark of the Ash-Trees, and there slows a Juice which Siam, bring it to Market to Sell, as our Councondenses into Manna, as the first Sort; there runs a greater Quantity than the first, but it is yellower and less pure; they remove it from the Tree and dry it in the Sun. In rainy or dripping Years, they make very little Manna from the Trees; because it liquefies and spoils by the Wet, which is the Reason that some Years the Manna is dearer than others. Pomet diftinguishes the Manna into three Sorts, which have been describ'd in their proper Places.

When Manna is kept it loses much of its Beauty, but does not lose a little of its Virtue; several People believe that the older it is the more purgative it grows, which I cannot at all understand, and therefore advise you not to use the red or brown decay'd and foft Manna, which sometimes you meet with at the Druggists, but take the purest you can meet with: it is a gentle Purger and proper for the Head, from an Ounce to two Ounces. The word Manna comes from the Hebrew word Man, which fignifies a Kind of Bread, or something to eat; for it has been received among the Ancients, that the Manna was a Dew of the Air condens'd upon certain, Calabrian Plants, re-

5. Of Gamboge, or Gum Gutta.

(7Um Gutta, or Gutta Gamba, Pomet. Gamboge, Gamandra or Peruvian Gum, is a Gum that flows from the Trunk of a creeping Plant, that is of such a particular Nature, that it has neither Leaves, nor Flower, nor Fruit: And produces nothing but a Quantity of prickly or thorny Branches, which arise one among

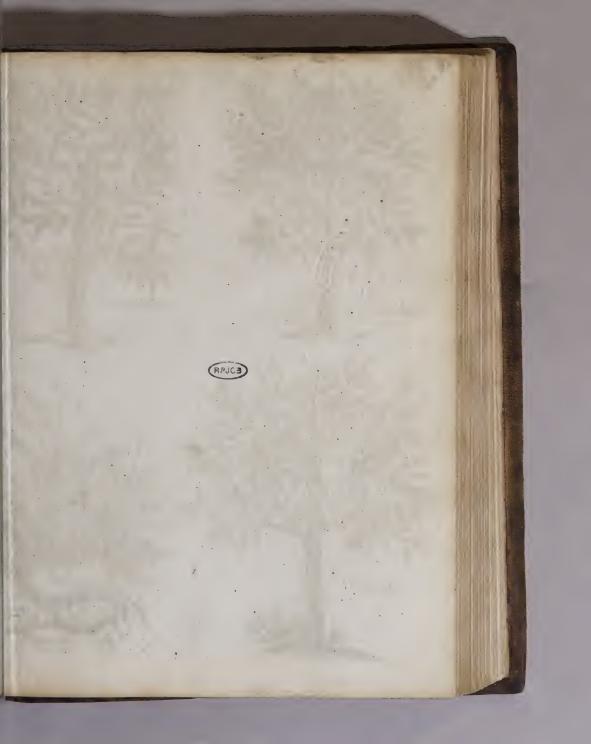
another, according to the Figure represented in the Plate.

The People of Siam, and the adjacent Countries, cut the thick Trunk of the Plant : from whence proceeds an inspissate milky Juice of a moderate Confistence, which after its being left some Time in the Air, thickens and grows yellow, and then the People roll it up like Paste, and afterwards make it in Cakes as we have it brought to us. The Peasants about Odia or India the Capital of try People bring Butter.

It is most commonly brought into Europe from Peru and China, and other Places of the East, being of a pure fine Body like Aloes, but of the Colour of the finest Turmerick, being a good Yellow, inclining to an Orange Colour, without Rubbish or Fifth in it, fine and clean in round Rolls or Cakes, and eafily diffolving in Water, being almost all of it Tincture, That it abounds with Sulphur plainly appears, not only by the chymical Resolution of it, whereby a large Quantity of Oil is extracted from it; but also from that bloody Colour, which the Solution acquires, when Lime-Water is pour'd upon it; seeing the very same Colour will be produc'd in Lime-Water, if you boil common Sulphur or Brimstone along with it; and that Gum Gutta is not altogether destitute of a pungent or sharp Salt, manifeftly appears by its producing a greenife Colour, quite disserent from that of a Red

Gamboge ought to be chosen of a brigh yellow Colour a little inclining to Red, clean and free from Sand, and which being chew'd dyes the Spittle of a yellow Colour, and

upon the blue Paper.





being held to the Flame of a Candle, is apt fiftence of a Paste, they mould into what but it will do better in a Magistery as follows, Take what Quantity you please of Gamboge, dissolve it in Spirit of Wine tartariz'd, then pouring Water upon it, a Powder of a noble yellow Colour will precipitate or fall to the Bottom: This is given from fix to ten Grains by it self, or in an Ounce of Pulp of Cassia for a Bolus. Others dissolve it in Vinegar or Spirit of Sulphur or Vitriol, and fo make an Extract. Gum Gutta is us'd in the Catholick Extract of Sennersus, in the cholagog Extract of Rolfinchius, in the hydropick Pills of Bontius, in the hydragogick Electuary of Mr. Charas. Lastly, the Pills of Gutta Gamandra of the London Dispensatory borrow their Names from it.

This was doubtless the Gum Monardus us'd against the Gout: it both vomits and purges admirably, carries off watery Humours, and is chiefly us'd against Dropsies, Cachexia's, Gouts, Scabs and Itch. Rolfinchius fays, it suffices to give this Gum crude, being finely powder'd and sprinkled with Spirit or Oil of Annifeed, and fo dry'd again, 'Tis an incomparable and beneficial Cathartick for Purging serous and watery Humours, and may be given to a Scruple in Substance in strong Constitutions.

There is a yellow staining Colour to wash Maps and Pictures with, made of this Gamboge. Take an Ounce thereof and put it in Water enough to dissolve it, and it makes a good Colour for Pen or Pencil; if you add a little Gum-Arabick, it will be so much the better; being dissolved likewise in clear Spring Water, it yields a very beautiful and transparent Yellow by the Addition of a little Allum to it, which will both brighten and strengthen the Colour.

Lemery. Gutta Gamandra, &c. or Gamboge, is a Resinous Gum brought us from India in large Rolls or Cakes that are hard, but brittle and extreamly yellow: The Gum flows by Incision from a Sort of thorny creeping Shrub, that runs up a Height, and winds it self about any neighbouring Trees: The Trunk of it is thicker than a Man's Arm; and the Indians by cutting of it, gain a concreted Juice, which being of the Con-

to take Fire. It is prescrib'd crude or un- Form they please. Some Authors hold that prepared, from three Grains to fix or ten; the Plant which produces this Gum, is a Kind of Lathyris, and that the Leaves are as thick as those of the Barba Fovis, or the greater Houseleek. It ought to be chose dry, hard, brittle, clean and of a deep Colour: It Purges strongly upwards and downwards, and ignorant People shou'd not be too busie with it.

6. Of Gum-Arabick.

HE Gum-Arabick, Theban, Ba- Pomet. bylonish, or the Egyptian Thorn,

call'd Acacia, which is the Name of the Trees which produce it, is a whitish, transparent Gum, which flows from feveral little Trees that are very prickly, whose Leaves are so small, 'twou'd be difficult to count them, and that grow in the Happy Arabia, from whence it is call'd the Arabian Gum. This is brought to France by the Way of Marseilles: But since the Gum Senega has been brought us, the true Gum-Arabick is become so scarce at Paris, that you can hardly meet with any.

Chuse such as is white, clear, transparent, and the dryest and largest Drops that can be got, especially for Treacle, which is the chief Use of it. This Gum is us'd with good Success for several Infirmities of the Lungs, and to fosten the Sharpness of Coughs; for which Reason, several People make it the Basis of the Liquorice Juice, especially at Blois, tho' very improperly; not only because it will not answer, but because they pay dearer for that which is worth nothing, and where they use Gum-Arabick, there they likewise use Senega Gum.

Gummi Arabicum, Thebaicum, Babylonicum, Achantinum, Sarace- Lemery. nicum, is a Gum that is brought

to us in large Tears or white Pieces, inclining fometimes towards a Yellow, clear transparent, and glewy in the Mouth, with out manifest Taste; It slows by Incision from a little thorny Tree, call'd describe This is a noble Tree growing in Egypt, and cultivated in several Gardens of Energy, has ving Sprigs and spreading Roots and a Livik rifing fix Fathom height, folid, full of Mran-

A a 2

ches and Boughs, arm'd with strong and get: This Gum is much us'd by the Silke Riff Thorns or Prickles; the Leaves are Dyers. fmal and fine, growing by Couples on each Side of a Nerve or Rib, that is two Inches long: The Thorns or Prickles are of a bright green Colour, a quarter of an Inch long, and the twelfth Part of an Inch broad; out of whose Wings the Flowers come forth in round Heads, resting upon a Foot-stalk an Inch long; they are of a golden Colour, fingle leav'd, of a fragrant Smell; and from a small narrow Pipe, enlarging themselves to a wide-mouth'd Cup with five Notches, adorn'd in the Middle with a numerous Train of Threads, or small Chives, and a Colour inclining to a reddiff, two Inches long, and bending or crooking, after the Manner of a Bow, in whose Cavity are several Partitions, distinguish'd with fungous or spongy Membranes, of a whitish Colour, containing Seeds that are of an oval Figure, flat and hard.

The greatest Part of the Gum we call Arabick, that is in the Druggists Shops, comes not from Arabia, but is only a Gum that is like it in Figure and Property, that is brought from Senega, or rather a Collection of several aqueous Gums, found upon several Sorts of Trees, as Plums, Cherries, &c. all which are in some Measure, pectoral, moistening, cooling, agglutinating and iweetening: proper for Rheums, Inflammations of the Eyes, Looseness, &c. The true Gum-Arabick falls by little and little, from the Trees, especially in Time of Rain; and agglutinates or flicks together in large Pieces, that are fine, clear, white and transparent; and this is call'd Gum Turick that is us'd by

the Silk Dyers.

7. Of Turick Gum.

HE Turick Gum, or that of Turis, is no other than the true Gum-Arabick, fallen from the Trees in a rainy Season, and mass'd together; which is brought from Marseilles, where it is freed from the great Lumps, that weigh sometimes more than five hundred Weight, which happens from their close Stowage in the Ships that bring THis is such as the Peasants bring to Paris, 'em over. Chuse the dry, clean, bright and

8. Of the Vermicular Gum.

THE Vermicular, or Worm-like Gum, is one of the Arabian or Senega Gums, which falls from the Trees twifted, and remains in the Figure or Shape of a Worm, from whence it takes its Name. Chuse the white, clear, and transparent, in little Windings, the dry and true Arabick, especially for the Treacle, which is the principal Intention of it.

9. Of English Gum.

HE English Gum is a white Arabick. or Senega, dissolved in a little Water, and reduced into the Nature of Paste, after having spread it upon a Stone Oil'd, of what Thickness you please, and then leaving it to dry a little; that is to fay, to the Confiftence of Flanders Glue; after that you may cut it as you please, and dry it. This Gum is made to curl Hair, and upon that Account. is call'd the Curling and English Gum, because the English first made it.

10. Of Gum-Senega.

THE Senega Gum, which we commonly call Gum-Arabick, and which is fold at this Time in our Shops, is a Gum which flows from the Trunk and large Branches of feveral Trees, furnish'd with Thorns and very small green Leaves, and white Flowers; from whence arise round and yellow Fruit resembling Figs; these Trees grow plenti-fully in several Parts of Africa, in Guinea, Sc. from whence this Gum is brought from Senega by the Blacks, or the white Men; that come from the Mountains, and who carry them on their Back, or on Camels, in Panniers made of Palm-Leaves; from whence they are fent by the Merchants to several Ports of France.

11. Of the Country Gum.

which they gather from their Fruittransparent Gum, and the whitest you can: Trees, as Plums and Cherries, that come forth from the Trees in the same Manner with the former, and are so much like some of them in Colour, Form, Substance and Nature, or Disposition, that they are not to be known as under; so that many People believe that they are all but one and the same thing; however they have all one and the same Quality and Operation, and are us'd to cure Coughs, Colds, Catarrhs, Hoarsenes, Shortness of Breath, Sc.

12. Of Gum-Traganth.

This Gum, which we usually call Tragansh, or Tragacanth, is a white curl'd Gum made like little Worms. The Shrub which belongs to it, is small and prickly, supply'd with very little Leaves of a whitish Green, which the People of Marseilles call Fox-Beard, or Goat's-Thorn. This Gum flows by the Cutting of the Trunk, and the thick Roots of these little Shrubs that grow numerous in Syria, especially about Aleppo.

This Shrub has Roots, according to 7. Baubinus, that dive deeply into the Ground, spriggy, and of a brown Colour, sending forth feveral Twigs, running and spreading along the Surface of the Earth, in a round Figure or Circle, with coupled Leaves growing upon a Rib, ending in a sharp Thorn or Prickle; they are of a roundish Shape, of a whitish Colour and soft. The Flowers are papilionaceous, of a whitish Colour, inclining to a Blue, and running together in round Heads; unto which succeed Cods, that are cover'd with white Hairs, and diftinguish'd into two Apartments, in which are contained Seeds of the Shape of a Kidney. There is nothing that grows more frequently upon the Sea Coast, about Marseilles, and upon Harper's Point or Cape, nigh Toulon, than this Thorn. This Gum issues out of the wounded Roots of this Thorn, running together in Lumps of different Sizes; some bigger and some less; some very clean and clear like Ising Glass; others again looking more blackish and foul: Both this and Gum-Arabick thicken the Humours, and moisten; but they are chiefly us'd for the Incorporation of Powders, and are dissolv'd in Rose-Water, and the like, and a Mucilage extracted thence,

Tragacanthum, or Dragacanthum, Gum-Traganth, is a white, shining, Lemery, light Gum in little long Pieces.

light Gum, in little long Pieces, flender and curled, or winding, in the Nature of Worms: They cut by Incision the Root and Trunk of a little Shrub, call'd by the same Name Tragacantha, or Spina Hirci, Goat's-Thorn; It bears several hard Branches, cover'd with Wool, and furnish'd with white Thorns, and very small thin Leaves, rang'd in Pairs, and ending in a whitish Thorn; the Flowers grow on the Tops of the Branches, joyn'd several together, that are leguminous; and like those of the little Broom, but white. After they are gone succeed Pods, divided each into two Partitions, full of Seeds, the Size of that of Mustard, and the Shape of a little Kidney: The Root is long, and stretches wide: it is as thick as one's Finger, white and woody.

13. Of Camphire.

Camphire is a refinous and very combustible Gum, and of a penetrating Smell, easie to dissipate into the Air, because of the Sulphur and vo-

latile Salt, of which it is compos'd, which flows from the Trunk and large Branches of feveral great Trees, that have Leaves like those represented in the Figure hereof, whose Original is in my Hands, which was given to me by Mr. Tournefort: These Trees grow plentifully in the Isle of Borneo, and other Parts

of Asia, and in China.

The Inhabitants of the Places where these Trees grow, cut the Trunk, from whence flows a white Gum, which is found at the Poot of the Tree in little Cakes, and which is brought into Holland to be resin'd. This Gum, as it comes from the Tree, and as it comes out of the Country, is call'd Rough Camphire; which, to have its requisite Quality, ought to be in brittle Pieces; and being clean'd shou'd be like white Salt of the Smell mention'd before, the dryest and least impure that may be.

This rough or unrefined Campbire is fometimes to be meet with at Reien and Pavis, from whence it is fent to Holland to be refined, because no Body else will take the Pains or Trouble to do it but the Hollanders.

I won-

on, that they never yet have inferted into common Bay-Tree, being bright, fmooth, their Books the Manner and Way of Refin- and somewhat curl'd and wav'd about the ing Campbire: Yet nevertheless some be- Edges; of a dark green Colour, a sharp aro-lieve that the Campbire we sell is just the matick Taste, and of a strong vehement fame as it drop'd from the Tree, which is Smell: Bur none as yet has given a perfect wide of the Truth, fince the rough Cam- or accurate Description of the Flowers of phire, as it comes from the Tree, is in Pieces this Tree; yet it is certain that a Fruit sucof different Sizes; and more like white Salt ceeds to the Flowers coming out of a longish that is very dirty, and that we fell is in Cup: Within this Fruit there is enclos'd a Cakes made in cover'd Pots, that is white, round Shell of a blackish Colour, inclining clear, and transparent; which lets us under- to a Brown, but not very hard; containing thand it has been work'd, and cou'd not a fourish Kernel, cloven in two, being fat, come to from the Tree: And for the Satis- of a biting aromatick Tafte, but not unpafaction of the Publick, I will lay down the latable. This Tree grows plentifully in the tuld me by any Person, but as I discover'd it

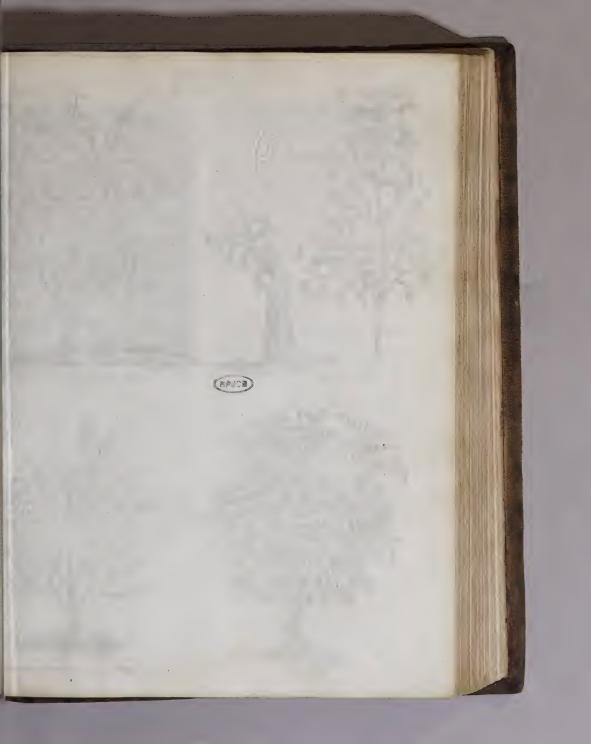
be Experience.

They refine or purific rough Camphire by patting it in a Matrass, or other subliming Veille), after it is pounded, and after half the Vessel is fill'd with the Powder they flop it lightly; then they place it upon a gende Fire, and presently the more subtil Parts of the Campbire rife and cling to the Top of the Veffel; and when all is sublimed, they find it fine, white, transparent and thick, according to the Quality of the unrefined Campbire that was imploy'd. After Sublimation they meet with a Caput Mortuum at the Bottom of the Vessel that is of no Value. There adheres to the refin'd Campbire a Camphire that is extreamly white, and all in little Grains, which is likely what wou'd not incorporate as the other. Likewise, as the rough Campbire is common enough among us, I know no Necessity we lye under, to let it all pass thro' the Hands of the Dutch, to make it either useful for Medicine, or other Purposes; as Fire-works, or the like. As to its Vertues, Mr. Lemery says, the Oil is very valuable for the Cure of Fevers, being hung about the Neck in which scarlet Cloth has been dip'd: This Oil is made by the Affistance of Spirit of Nitre, that makes it of an Amber Colour; and this is wonderfully recommended in Pains, and where the Bones are carious.

Others are of Opinion, that the Camphire of the Shop is obtain'd from a Tree that rifes the Height of a Man, being furnish'd with a Number of Branches and Boughs, spreading far abroad, and bearing Leaves that grow very thick, and close by one ano-

I wonder what all our Chymists have thought ther, not much unlike the Leaves of the Manner of Refining it, which was never Country of Japan. Camphire is extracted from the Roots of this Tree; they cut the Roots into small Pieces, and throwing them into a Brass Kettle, they cover it with a Lid that is broad at the Bottom, and tapering, sharp or narrow at the Top, like the Head of a Limbeck, and putting the Kettle over the Fire that volatile Salt, the Campbire, ascends and cleaves to the Cover or Lid. This Campbire, at first, is of a sordid whitish Colour and very foul; but after the Hollanders have refin'd it by the Help of Fire and Glass Vessels, it is so order'd and elaborated, that it becomes transparent.

Some fay that Camphire sometimes flows naturally or spontaneously from the Trees, or else by making deep Incisions into them; but the best Campbire is drawn from the Roots of the Cinamon-Tree as others aver: Chuse such as is white, transparent, brittle, dry, of a biting pungent Tafte, and that smells like Rosemary, but much stronger: It is a true oleaginous volatile Salt, abounding with Sulphur, whence it easily dissolves in Water and Spirit of Wine. This Medicine provokes the Courfes, and affifts wonderfully in Suffocations of the Womb: Besides its Faculty of subduing Hysterick Distempers, it is also anodine, procures Sleep, and refists Putrefaction; upon which Account it is often prescrib'd in malignant Fevers, and after the Use of Emeticks, to refresh and restore the fainting and drooping Spirits. Spirit of Wine camphorated, may be taken inwardly to a Spoonful, and outwardly it powerfully resolves, discusses, and not only prevents, but also cures a Gangrene. An Oil is prepar'd from it, besides that mention'd by dislolving





folving it in the highly rectify'd Spirit of phire, but not one of 'em exceed the pure Scc.

Camphora seu Caphura, or Cam-Lemery. phire, is a Kind of white light Rofin, that is very volatile, comgrows in the Ise of Borneo, and in China: This Campbire is found at the Root of the Tree, where it is form'd into Pieces or Lumps of different Sizes, which is call'd rough or unpolith'd Camphire; this is refin'd by subliming it over a gentle Fire, as hath been already binted.

There are some who affirm the Camphire to be a Gum that distills Drop by Drop, from a great Tree much like a Walnut-Tree in China, and in the Islands of Japan, Java, Borneo; from which last Place, the Best is faid to come, and other Parts of the East-Indies, from whence it is brought to us in Duppers, and Cakes unrefined; which when purified, is of a white Christalline Colour, and a strong odoriferous Smell, volatile in Quality, and ready to dissolve in oily and almost unextinguishable, burning not only in the Air, but Water, and therefore is a proper Ingredient for all Sorts of Wild-Fire.

That which is brought out of China is in little Cakes, but is not accounted so good as the Bornean; it is so very subtle and volatile, in any convenient Vehicle. It is also good in tra and Stam, Malabar, Surat and Java. continual and intermitting Fevers, whether faction and Perspiration.

Turpentine, which is an efficacious Medi- Substance itself, or a bare Diffolution of it, cine against Rheumatism, Sciatica, or Hip- because of the Purity and Fineness of its Gout: It is us'd in the white Troches of own Body: As the Oil, Simple and Com-Rhases, the Ointment of Cerusse, in the red pound, the Essentiat Spirit, the Camphire deficcative Ointment, in the Cerate of San- terebinthinated, Troches, and the like, ders, the Styptick Plaister of Paracelsus, which rather debase than exalt this noble Medicine to a higher Pitch of Excellency: It is certain this abates Luft, refists Imflammations, and prevents Gangrene; the two first of which are apparent from the great bushible, of a strong penetrating Smell, that Power this has to overcome the Force of flows from the Trunk and large Branches of the Cantharides inwardly taken, and to rena Tree resembling the Cherry-Tree, that der them so far from being dangerous, that they become the most efficacious Remedy in Practice.

14. Of Benjamin.

His is a Gum that flows from the Trunk and large Branches Lemery. of a great Tree, by the Incisions

made into them; the Figure of which is agreeable to that drawn of it under this Head, and which grows plentifully in Cochinchina, chiefly in the Forests of the Kingdom of Lao and Siam: By Reason the Attendants of the Ambassadors of Siam, brought a great Quantity to Paris, where it was fold at a good Price.

This Description of Benjamin will not spirituous Bodies: Being set on Fire, it is fail to surprise those who have never seen Benjamin as it came from the Tree, and stuck to the Bark, having seen no other ar Paris, but a Quantity of different Sorts of Benjamin; the First of which Kind is that we call the Benjamin in the Tear, or gross Mass, which is usually clear and transparent, that it is difficult to keep it from losing itself of a reddish Colour mix'd with white Spots, even in Quantity and Substance, unless it as Almonds that are beat, whence it is call'd be close stop'd up in Glass Bottles: This is the Amygdaloides, or Almond Benjamin; an excellent Remedy for Hysterick Firs and this is the best Sort, and is said to come from Vapours, being smell'd to, us'd Clysterwise, Sidon and Samaria; but that which is brought and given inwardly from three Grains to six to us comes from the East-Indies, from Suma-

The Second is the grayish, call'd Resignate Putrid, Malign, or Pestilential, being given in Sorts, which if good, ought to be clean, inwardly, or hung about the Neck; be- of a good Smell, full of white Bits or Gro cause being of such subtil Parts, it insensi- as resinous and little loaded with 1 th as bly enters into the Pores, and causes a Rare- may be; but have nothing to do with the black, which is Earthy and full of Drofs; and There are several Preparations of Cam- beware of the Artifice of having them all

This Gum was not formerly us'd inwardly, either by the Indians or Europeans, but fince Chymical Physick has been in Vogue the following Preparations are made from it, as a Tincture, Magistery, Flowers, Crystals and Oil. The Flowers, according to Lemery, are made, by putting the Benjamin into an earthen Pot, covering it with a Cone of Paper, and tying it round about under the Border; then fetting it into hot Ashes or Sand; and when the Benjamin is heated the Flowers will ascend; shift the Cone, and sweep off the Flowers every Hour or two, and keep them in a Bottle close stop'd. Note, That Benjamin being very full of volatile Particles, eafily sublimes over the smallest Fire, and the Flowers ascend in little Needles, very white; but if you give never fo little Fire more than you shou'd do, they carry along with them fome of the Oil, which will make them yellow and impure; you must therefore perform the Operation gently to have the Flowers fair, which will have a very pleasant Flavour and Acidity.

These Flowers are, without doubt, the most essential Part of the Benjamin, whose principal Virtues are as well to subtilise bad Humours, and expel them through the Pores of the Skin, as to loosen and expel the thick and viscous by the ordinary Ways, chiefly those of the Breast and Lungs; Dose from three Grains to ten in any proper Liquor: They are profitable in vehement Catarrhs, Coughs, Colds, Afthma's, and Obstructions with a Virtue to provoke Urine and Perspiof the Lungs, procure Sweat excellently in venereal Cases, given in a Decoction of Guajacum, and fortify a weak Stomach. From these Flowers a Tincture is likewise extracted with Spirit of Wine tartariz'd, mon, two Drops; Syrup of red Poppies, whose sulphureous Parts has a good Agreement with the volatile Salt of the Benjamin; so that this Spirit not only extracts a Tincture from the Flowers, but from the buttery Substance of the Gum, much more pure and subtle, and which will work in less Quantity than the Tincture drawn out of the crude or groß Benjamin.

Benzoinum officinarum, Ben Ju-Lemery. d.cum, or Asa dulcis, the Benjamin of the Shops, is a refinous Substance, running together into large Lumps of a Tree that is of no great Height, but or Clots, being bright, shining, of a brown whose Leaves resemble those of the Quinco

mix'd together that they may sell the better. Colour, without Filth or Dregs; brittle, and eafily crumbling into Bits, adorn'd with several white Flakes or Specks, like the inner Substance of Almonds, inflammable or easily taking Fire, and odoriferous, or yielding a fragrant Smell.

Benjamin is most esteem'd of when it is very clear, and almost transparent, of a light brown Colour, inclining to Red, and plentifully furnish'd with white Flakes; that which is black is not so much valued: This is brought from the East-Indies, but more particularly from Sumatra and the Kingdom of Siam. The Benjamin Tree is large, tall and beautiful, as Garcius ab horto relates; bearing the Leaves of the Citron or Lemon Tree, but smaller, and not shining so much,

being whitish upon their under Side. A Tree, bearing the Leaves of the Citron or Lemon Tree, and droping Benjamin, which feems to answer the Description of Garcius, was not many Years ago sent out of Virginia, by Mr. Banister, to the Right Reverend Henry Lord Bishop of London, which grows now in the Royal Garden at Paris, being the Gift of the aforesaid Bishop; it flourishes in the Beginning of the Spring, but has not produc'd any Fruit as yet. Benjamin promotes Expectoration, and is of great Force and Prevalency in the Afthma, or Stoppage of the Lungs, and a lingring phthisical Cough; but chiefly the Flowers of it, which being fresh and new made, may be given from fix Grains to twelve: They are likewise endued ration, and the following is proficuous in a Pleurify. Take Carduus, and red Poppy Water, of each three Ounces; Flowers of Benjamin, ten Grains; of the Oil of Cinaone Ounce; make a Potion to be repeated according to the Nature of the Disease, twice or thrice in twenty four Hours.

15. Of Red Storax.

HE Red Storax, or Frankincense .of the Jews, which is brought Pomet. very common among us, is a Rosin issuing from the Trunk and thick Branches Tree, only that they are smaller, and the is that which is in Grains, and with some Fruit of the Bignels of a Filbert, in which is contain'd a white Almond or Kernel that is oily, and of a Smell entirely like the Storax; and tho' this is not to be met with but by Accident, it gives Occasion to several to believe that the Storax comes from these Nuts.

This Gum is brought us by the Way of Marseilles, from several Parts of Syria and the Levant, where thole Trees grow plentifully. Chuse that which is run together in Lumps or Clots of a red Colour, with some small whitish Lumps interspers'd, sweet, and of a fragrant Smell, but reject that which is dry, black, branny or foul, and without Smell, but like the liquid Storax; as also refuse the Storax in the Cake or Roul, which is a Composition of liquid Storax, and Abundance of other Druggs of little Worth: as also that which is in Dust, but nothing else but the Saw-dust of the Wood. C. Baubinus says, it is about the Bigness of the Olive Tree, and grows in the Woods of Provence in France, between St. Magdalen and Toulon: In its Trunk, Bark and Leaves, it resembles the Quince Tree. The Flowers grow upon small Twigs or Scions that last but one Year, being not much unlike the Flowers of the Orange Tree, but single leav'd, having their lower Part sistulous, and their upper Part starr'd with a hollow Cup, and Bell-fashion'd, containing a round globous Pointal, that passes away into a Fruit of the Bigness and Shape of a Filbert Nut, being thick and pulpy; at First of a sweetish Taste, but afterwards turning bitterish, in which is contain'd a Stone or two that is very hard, inclining to a white Kernel.

16. Of Cane Storax.

THE Cane Storax, or that in Tear or Grains, which we have from Marfeilles or Holland, is a reddish Mass full of white Grains or Bits, and sometimes that are sepaalmost like Balsam of Peru.

white Fragments in it, or yellowish with a very fweet Scent, and that yields like Honey when foftned; that is worse which is mix'd with Bran, but that which is mix'd with Sawdust, or is black or mouldy, or without Scent, is worst of all and naught. Matthiolus says, it is a concreted Rosin from a Tree dry and sweet, and is call'd Storax Calamita, from the Calami or Canes brought from Pamphylia with it.

Mr. Charas fays, he believes that the Storax which is brought to us, and which they pretend to bring out of the East, is not the true Storax; the high Price at which it has been fold for these many Years, has encourag'd the Villany of those Cheats, and the Tryals which he had made thereof, had convinc'd him; It cannot, fays he, be counterfeited with Galbanum or Ammoniacum, because of their strong Scent, whereas Storax is very pleasing and odoriferous; but doubtless it may be adulterated with the white Tears of Benjamin, or some refinous Gum without Scent, or which may eafily be outscented by the Storax; to which purpose, continues he, I have thought fit to publish what I have experimented, viz. That having Storax in Tears by me, whose Smell, Taste, Colour, Form and Body were fuch as are required in the true Storax, I undertook to foften one Tear in my Hand, intending to incorporate it afterwards with other Druggs of a resembling Substance: I was astonish'd when I found all the good Scent of the Storax in my Hand to be loft, and the same Tear not fit to impart any Scent or Virtue to the aromatick Balsam I was making: Therefore trusting neither to the Storax made up like Bowls, which is encreas'd with liquid Storax. nor to the other full of Saw-dust which is fold in the Shops; I chose a Storax of a very delicious and fragrant Scent full of Grains or little Tears and free from Dirt, out of which I extracted the Gum thus: Take of this Storax eight Ounces, put it into a Pipkin rate, that is to say, that is all in white Tears with a Pint of White-wine, place it over within and reddish without, of an indiffe- the Fire and stir the whole gently with a rent Consistence, of a sweet fragrant Smell, Spatula till it is sufficiently diffoly'd; put it out immediately hot into a strong Bag, tye Storax Calamita is of a refinous Substance, it hard just above the Gum, and press it fat, clammy, foft in handling, of a most fra- out between two hot Plates; so will you grant Smell, and a reddish Colour; The Best have about two Ounces of pure Gum, both

fair and fragrant, and every way exceeding Smell, and of a whitish Colour, which is all the Sorts of Storax in Tears. kept in Water, because of its Clammines;

It is emollient, digestive, cephalick, neurotick and pectoral; Cures Coughs, Catarrhs, Hoarseness, Heaviness, Barrenness and Hardness of the Womb: taken with Turpentine as a Pill, it opens the Belly, and after an excellent manner eases the Pains of the Stone, and takes away all Obstructions of Urine by Sand, Gravel, &c. Outwardly it is vulnerary, discusses Tumours, eases all Sorts of Pains and Aches, and stops Catarrhs, used as a Fume. The Tincture of Storax has all the Virtues of the Gum, stops Gonorrhea's, and is faid to be a Specifick against Barrenness in Women: It is a Cordial against fainting Fits, and also good in Diseases of the Head, Brain and Nerves. The Pills made up with this Gum and Chio Turpentine have all the Virtues of the Gum, stop Gleetings in Men and Women, ease Pain in making Water, and remove all Obstructions of Urine. Dose from a Dram to two Drams. There is an acid Spirit drawn from it that is aperitive and very penetrating, and the yellow Oil is good against Palsies, Numbness, Convulfions, &c. either inwardly taken to three or four Drops, or outwardly apply'd to the Part affected: The red Ballam made of the Storax has the same Virtues, but is not fo subtil and pure, and so is seldom given inwardly.

17. Of Liquid Storax.

Pomet. THE Liquid Storax is compos'd of four Ingredients disfolv'd together; which are Storax, a Kind of Turpentine, Oil and Wine, beat up in Water to the Consistence of an Oyntment, of a grey-ish Coleur like Potters Clay. Chuse your Liquid Storax as grey as may be, that has the Storax Smell, of a good Consistence, and as little of Filth and Dirt as may be: Its Use is in Surgery, especially for an Ointment that bears its Name, and is much us'd in the Hospitals, especially Hotel Dieu in Paris, where it serves them very successfully in the Cure of the Scurvy, Wounds and Gangrene: The Persumers use it but seldom, if they can get the other Storay.

This is a fat Ballam-like Substance, much thicker than Venice Turpentine, of a strong

kept in Water, because of its Clamminess; it is brought us from the Streights; that this Storax differs much from the other, is apparent: Matthiolus, Dioscorides and Baubinus, are of Opinion, it is the Composition before describ'd; but Serapio will have it to be an Exfudation from the Kernels or Fruit of the Tree; Avicen will have it from the Bark, and Gerard a Liquor or Gum that falls from the Storax Tree, and will never be hard: Parkinson saith, that none of the Ancients have made Mention of any fuch Thing, and fays it is affuredly some other Thing, of which, as yet, we have no Knowledge: But whether we know the Original of it, or no, it is the less Matter, since we know the Thing; and by manifold Tryals, the medicinal Uses thereof. Inwardly taken, it opens Obstructions, discusses Wind, expels Vapours, helps hysterick Fits, eases the Colick, and provokes Urine; Dose from half a Dram to a Dram, in Pills or a Bolus: Outwardly, it is good against Sciatica, Palfy, Contraction of the Joynts and Nerves, Bruises, Wounds, Ulcers, &c. made into a Balfam or Plaister.

18. Of Pastiles.

THE Pastiles for burning, are a Composition of Benjamin and Pomet. Storax, disfolv'd together over a fmall Fire as quick as may be: They are form'd into Tablets of what Shape you please, and are in Goodness according to the Materials of which they are made; as fome add Musk, Civet and Ambergrise: In short, they are made richer or meaner, as the Maker will afford; but the most usual Additions are Liquid Storax, Rhodium and Laudanum; and to make 'em black they feldom use any thing else than Charcoal: Mr. Charas mentions three Sorts which may be found in his Book of Chymistry, Page 1057, where he calls them Trochifci Odorati vel Avicula Cy-

19. Of Virgin Milk.

Besides the Virgin Milk made with Lytharge, we make another from Tincture of Benjamin and

Pomet.

Storax

fine, use Balsam in the Shell, and Storax in Tears; to which they add Musk, Civet and Ambergrise. There are some who value not the Smell add Myrrh, because they suppose it good for taking away red Spots in the Skin. This Tincture ought to be very fine, red, clear, and very fragrant, smelling the least of the Spirit of Wine that is pos-

Styrax or Storax, is a fragrant Lemery. refinous Gum, whereof there are three Sorts; the First is call'd Styrax ruber, or the Red Storax; and by some Thus Judaorum, the Jewish Frankincense, because they believed that it was the Frankincense which the Magi carry'd to the Saviour of the World. This Gum is in the Mass reddish or yellow, which they draw by Incision from a Tree of a moderate Height, call'd Styrax Arbor, by Gerard, Ray, and Styrax folio Mali Cotonei, by C. Bauhinus and Tournefort. This Tree is like that of the Quince, but the Leaves are much smaller, oblongish, firm, green without, whitish within, supplied with a great deal of Wool: The Flowers grow upon the Branches, collected several together; each of which, according to Mr. Tournefort, is a Funnel open at the Top, and cut into several Parts, dispos'd round, that makes a jagged Cup of feveral Points; when the Flower is gone there appears a Fruit of about the Size of a Filbert, that is white and cover'd with a fleshy Rind, the Tafte something bitterish; and under this Rind or Shell, are two or three hard strong Kernels, full of a soft oily Seed, that has a Smell like the Gum Storax, and an unpleafant Taste: The Gum ought to be chose near, foft, far, of a sweer, pleasant, aromatick Smell; that which is too dry, is fometimes full of the Saw-dust of the Wood of this Tree, and other Impurities.

The second Sort of Storax is nam'd Calamita, because it is often brought in Reeds to preserve its Beauty and Smell: Sometimes it

Storax, which is what the Surgeons and if fine you ought to chuse, or else such as Barbers use, by reason of its pleasant Smell. come in clean small Bits, that are reddish This Tincture of Benjamin and Storax is without, and white within, and that smell call'd Virgin Milk, because when it is put in- like Balfam of Peru: These two Sorts conto Water, it will turn it white as Milk. tain a good deal of Oil, and some volatile Those who wou'd have their Virgin Milk Salt, are proper to strengthen and refresh the Brain, Nerves and Stomach, relift malignant Humours, and mollifie the Hardness of the Spleen, Glands, &c. The third Sort is Liquid Storax, which is an oily, viscous, gross Matter, having the Consistence of a thick Balsam, being made up of several Bodies incorporated together; and is emollient, and very resolutive, and revives the Brain by its Smell, but is seldom apply'd otherwife than externally.

20. Of the Abyssine Myrrh.

Mirrb is a refinous Gum that flows from a little Shrub that Pomet. is very thorny, by Incisions that are made, into clear transparent Tears, of a white Colour, that in growing older become of a deep Red. These small Trees, whose Leaves come near in Likeness to the young Elm, grow plentifully in the happy Arabia, Egypt, and Africa, especially amongst the Troglo-dites, from whence it derives its Name, as well as that from Abyssinia; because they gather a great deal in the Kingdom of the Abyssines, or Prester John's Dominions. Chuse the finest Tears, of a golden yellow Colour, clear and transparent, apt to crumble, light, bitter to the Tafte, of a strong Smell, pretty disagreeable; and also that which is the true Stacte Myrrh, or that in Tears, that flows spontaneously from the Tree.

They ought to be undeceived who believe, according to what a new Author has advanc'd, that all the Myrrh the Druggists fell, has none of the requisite Qualities it shou'd have; and as for the little the Apothecaries fell, it is not worth speaking of; but we may be satisfied there is enough to answer our Intentions, if we get that in small Pieces, Lumps, or large red Tears, clear and transparent, that when it is broke, has little white Spots in it: This is brought out is brought us in reddish Lumps, full of white of Turkey and Æthiopia, from whence comes Specks; sometimes in separate Tears, which the best Kind, being of a bright, yellowish.

or red Colour, somewhat clear, brittle, of a within like those upon the Nails, of a sat biting and very bitter Taste, a strong Smell, Substance, a strong Smell, and not very fat, refinous and mark'd within, with white Specks : It is also either firm and folid, this Gum so chose is rare, it ought to be rewhich is properly call'd Myrrha; or Liquid, serv'd for internal Uses, and the Common which according to Dioscorides is call'd Statte, which is first so gather'd from the Tree without force, and also press'd from the Myrrh, as the Oil of Liquid Amber from the Rosin of the Birth, is an excellent Vulnerary and that Name.

Oil or Liquor of Myrrh, Troches, and an Oil by Distillation: As to the Liquor, Lemery fays, it is the more soluble Part of the Myrrb moisten'd with the Humidity of whites of Eggs, and the moist Place in which it is made, which is generally a Cellar, and in his Opinion this is the best Oil yet invented; for if it be drawn by Spirit of Wine or Distillation in a Retort, it is so torrished that it loses volatile Parts this Gum contains are preferved in their Natural Being, the Humidity joyn'd to it, not being able to alter its Nature.

Myrrh opens and removes all Obstructions of the Bowels, provokes the Courses, and relieves all, or most Distempers incident to the Womb; being given in a Bole, Electuary or Powder, from fix Grains to twenty. Statte is that liquid Part which is found in the Center or Middle of the Lumps or Clots of Myrrh, when they are fresh and new, or squeez'd from the Myrrh, as Dioscorides teaches: Besides its opening and antihysterick Faculty, it is likewise us'd with success, in a Quinfy, Hoarseness, Cough, Pleurisie, Fluxes of the Belly and Quartan Agues: Outwardly, in Wounds, Tumours, Gangrenes and rotten Bones; It attenuates, difcusses and resists Putrefaction. Myrrh has given a Name to the Troches of Myrrh; it is also us'd in Venice Treacle, in the Confection of Hyacinth, Pills of Agarick, the Divine Plaister, and in Oxycroccum.

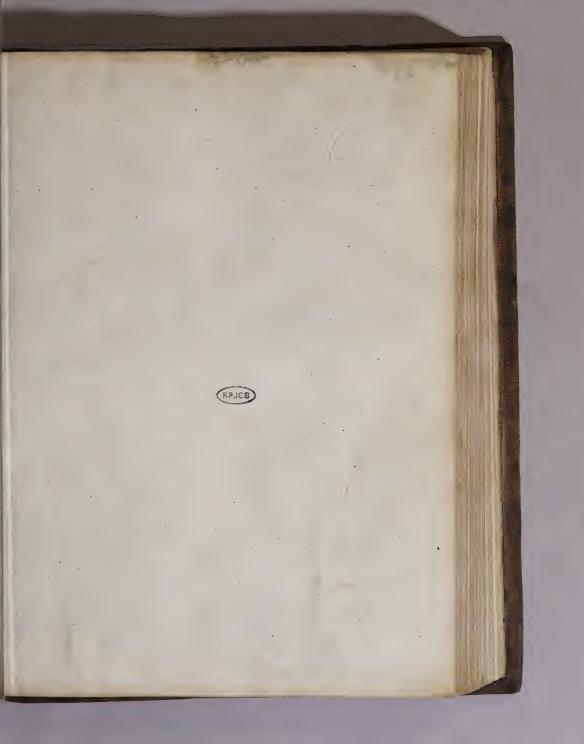
Myrrha or Myrrh is a refinous Lemery. Gum, that flows by cutting a thorny Tree that grows in Arabia Fielix, Egypt, and Athiopia, in the Abyffines Country and amongst the Troglodites; for which Reason the Best is call'd Myrrha Troglodyrica; it ought to be fresh, in fine clear Tears, light and of a golden yellow, or

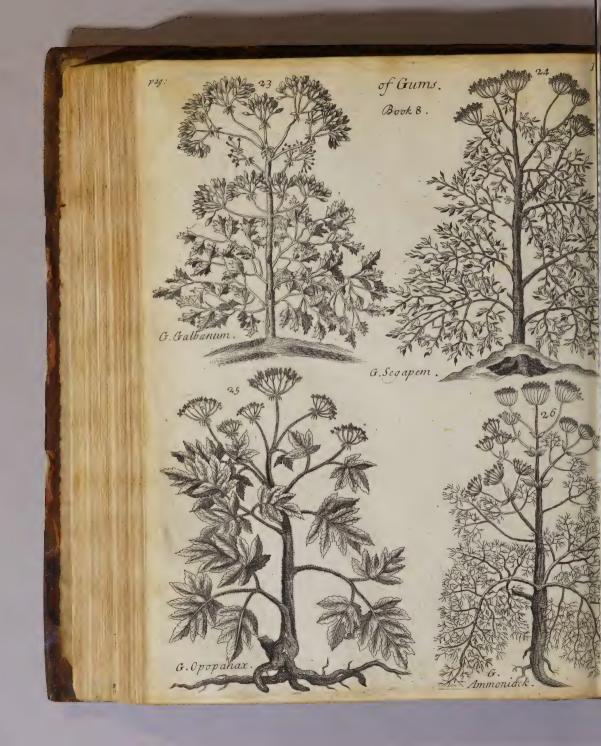
pleasant, the Taste bitter and acrid; but as may serve for Plaisters, Oyntments, &c. It is aperitive by Urine, and a little aftringent by Stool, provokes the Courses, and hastens proper in Ruptures, both internally and ex-There is prepar'd from it, an Extract, an ternally apply'd. The Myrrh which the wife Men of the East presented to our Saviour, was likely a Drugg different from ours; for it is represented to us as a very precious aromatick Perfume, instead of which our Myrrb is common, and has neither Taste or Smell that is agreeable. Some hold that it was the Statte of which I shall treat in its Order; others will have it to be the Storax: Others again pretend that it was a very scarce and its best Parts; whereas per Deliquium, what fragrant Gum or Balsam, which had then the Name of Myrrh, and which is now unknown to us by that Name; but this is a Matter too difficult to decide here:

21. Of the Myrrha Stacte, or Liquid Myrrh.

HE Stalle or Liquid Myrrb, is that which was presented to our Lord and Saviour by the Magi or Wise Men, and which the Ancients call'd Staften, or Myrrha Stafte vel Electa, whose Scent was very grateful; as is observ'd in the third Leffon of the Office of the Virgin, where it is said in express words, Quasi Myrrhai electa Dedi suavitatem odoris; it was a fat: unctuous Liquor which is met with in Myrrh newly fallen from the Tree, as that which falls from young Trees, without Incifion. But as at present this precious Merchandize or Commodity is altogether unknown to us; several Persons have invented an artificial Liquid Myrrh, by dissolving it in Oil, which they call the Statte Unguent. Others make it thicker, and give it the Name of Artificial Statte.

Stafte, Staften, Myrrha Stafte, or Liquid Myrrh, is a Kind of Balfam or gummy Liquor, that is of a fragrant Smell, and collected from under young Trees that reddiff. Colour, having little white specks produce this Mrrb, and which drops from it without





without cutting. The Ancients preserv'd this Druggs, that they have great Ware-Houses Drugg as a precious Balfam, and believed with just Reason that it was that Kind of Myrrh spoke of in the Gospel, and which the Magi brought to the Saviour of the World at Bethlehem, with Gold and Frankincense. This has the same Virtues with the other Myrrh. but more efficacious: But the Stalle that we have brought us by the Merchant is oftentimes Artificial, being made by diffolving Myrrb in Oil, and mixing a little Wax with it to give it a Confistence.

22. Of Assa-Fætida.

Pomet. ASSA Fatida is a Gum that flows during the Heats from the Trunk of a small Shrub, whose Leaves are like Rue, that grows plentifully in the Indies, especially about the City of Utard, where it is call'd Hiught. It also comes from Persia, Affyria and Libya. There are some Authors who fay, that the Affa-Fætida which comes from Persia slows from a Shrub whose Leaves resemble those of Radish. The Natives of the Place cut the Trees just to the Roots, from whence runs a white Gum inclining to Red, of a very stinking Smell; for which Reason the Germans call it Stercus Diaboli, or Devils Dung.

They chuse the Assa-Fatida in Clots or Lumps, full of white Tears, dry, and which being fresh cut, will be of a yellowish White, that in a little time after changes into a fine Red, tending to a Violet Colour, and whole Smell may be born with, and meddle not with that which is far, nasty, full of dirt and Rushes that come along with it; likewise reject such as is black, and of such a disagreeable Smell, as it is scarce possible to bear it: This Drugg is of some Importance in Medicine, but more us'd by the Farrier

than the Physician. There are several other Names that Assa-Fætida goes by; as the Syrian Juice or Liquor, the Median, Persian, &c. the greatest Part of it that comes to France, is brought from London, from whence we have it very full of Dist, in the same manner as it is now fold in Paris; just as we have Oil of Turpentine brought us fometimes from Provence: They have such vast Quantities of Assa-

fill'd with these Kind of Commodities.

Assa-Fætida is a Gum in great yellow Clots of a strong unplea- Lemery. fant Smell, that drops out of the Trunk of a Shrub whose Leaves have a great resemblance to those of Rue; But Bon affures us, that it is press'd out of the Roots of a certain Plant growing in the Kingdom of Persia, not far from the Sea-Coast: And that there are two Kinds of this Plant, the first being a Sort of a Shrub bearing Twigs and Branches very much refembling the Willow or Ofier: The Affa-Fætida, says he, is press'd out of the Chives or Flowers of this Plant, being cut small and bruis'd, which afterwards is dry'd and harden'd. The second Kind of Assa-Fætida is press'd out of the Roots of a Plant that fends forth very thick and stinking Stalks; bearing Leaves like those of Spurge. That of the Shops is a reddish Gum, consisting of whitish and sometimes Carnation and Violet-colour'd Drops, being of a bitter biting Tafte, and a strong, vehement, rank Smell, like Garlick or Leeks; that is the best which is brought out of the Eastern Parts, in clear, pure transparent Drops: it is adulterated with Meal or Flower of Sagapenum. This Gum is cephalick, splenetick, hysterick and vulnerary; but chiefly us'd in Obstructions and Suffocation of the Womb, Obstructions of the Liver, Spleen and Lungs. It has been found a Specifick in the Epilepsy, Vertigo, Lethargy and other Diseases of the Head, Dose from half a Scruple to a Dram in Pills or otherwise.

This Gum will dissolve in Water, Vinegar or Wine, and therefore confifts most of aqueous Parts, and has very little of Rofin in it; for which Reason it is not so often us'd with Spirit of Wine, as with aqueous Menstruums: Schroder lays, if any be troubled with the Epilepsie, he ought presently to fit with his Head over the Fume of Affa-Fætida; this is generally taken inwardly in Pills or Tincture.

23. Of Galbanum.

Albanum is a Gum that flows G Albanum is a Gallant which from the Root of a Plant which Fætida now and then in London, besides other the Botanists call Ferula Gulbanifera, or the nally.

Fennel-Gyant, bearing the Galbanum, whose and a little acrid. The other is in a large Leaves are according to the Figure describ'd, taken from the Original which I have in my Hands, given to me by Mr. Tournefort : On the Top of the Stalks grow flat Seeds of the Size and Thickness of our Lentils, as is to be feen in the common Galbanum, where there is enough of it to be met with. This Plant flourishes in Arabia Felix, Syria, and throughout India.

We bring two Sorts of Galbanum from Marseilles; to wit, that in Tears, and that in the Mass: The first ought to be chose in fine Drops, yellow within and of a golden Colour without, bitterish in Taste and of a very strong Smell. The other Sort in the Mass ought to be chose dry, clean, the most furnish'd with white Tears, and the least fetid that is possible: It is a Drugg much us'd in Physick, as well internally as exter-

Galbanum ought to be chosen fat, inclin-

ing to a reddish Colour, confisting of several whitish and shining Lumps which will not dissolve in Oil, but easily in Water, and is of a pungent bitter Tafte, and of a strong Smell: It powerfully brings down the Courles, cures the Suffocation of the Womb, expels the After-Birth, and helps to fetch away a dead Child. The Fumes of Galbanum are very prevalent against hysterick Firs or Vapours, and is given in Substance from half a Scruple to half a Dram. A Plaister made of Galbanum is very properly and profitably apply'd to the Belly or Navel in hysterick Fits or Vapours; or else the Navel may be annointed with the Oil in the same Cases; the Galbanet of Paracelfus being an effectual Medicine in a Palfy and Colick, is prepar'd after the following manner: Take Galbanum one Pound, Oil of Turpentine half a Pound, Oil of Lavender two Ounces, dissolve and digest them in a Retort, with a sufficient Quantity of powder'd Lime; and keep the

fter to venereal Bubo's, and helps to discuss all Sorts of schirrous Tumours. Galbanum is a Gum whereof we have two Sorts, the one in yellow

Liquor for Use. Galbanum outwardly ap-

ply'd, resolves and discusses Tumours; upon

which account it is apply'd by Way of a Plai-

fatty and glutinous Mass, full of Stalks and Drofs, and of a very stinking odour. Both Sorts flow by Incision from the Root of a Kind of Fennel-Gyant, which grows in Arabia, about the Height of a Man, the Stalk is thick and full of Pith, the Leaves broad and large, resembling those of Parsley: The Flowers grow in Tufts or Clusters, compos'd usually of five Leaves, made like a Rose at the End of the Cup; when the Flower is gone, the Cup becomes a Fruit, confifting of two very large Seeds, that are oval, flat, and thin, like those we see come over with the Galbanum.

That which has Grains, or some Seeds in it, that is yellow, pure, fat, heavy, and not sticky, yet with some Branches or Bits of the Ferula in it, is to be cholen, which is not too dry, nor moist, and slames when burnt : It softens, dissolves, discusses, and yet extracts Things forth of the Flesh; is chiefly us'd against Vapours, Fits of the Mother and Obstructions of Liver, Spleen and Womb. It dissolves Tumours and Nodes, gouty Swellings and Pains, being apply'd Plaisterwise to the Parts afflicted.

Cleans'd Galbanum is dissolv'd as some other Gums are in any Liquor, as Water, Vinegar, Juice or Wine; dissolve it in the Liquor, or, strain and inspissate, but observe that some hang it in a Cloth over the Vapour of a Bath, and so lets it drop out; but others put it into hot Water, and cast off the Rubbish which swims at the Top. Oil of Galbanum is made by a Retort with Vinegar; the Tincture by Spirit of Wine acuated with Spirit of Nitre.

24. Of Gum Sagapen.

' H E Sagapenum, likewise call'd' Pomet. Serapinum, because of its Smell, that is almost like that of the Pine, and by the French, Gum Seraphin, flows from the Trunk of a Plant whose Leaves are very small, and the Seeds resembling those of Galbanum, except that they are less: these grow plentifully in Persia, Media, &c. from whence they are transported to us and all Tears or Drops, of a strong Fla- other Parts of Europe. Chuse your Sagapen your and unpleasant Smell, of a bitter Taste in fine Tears, clear and transparent, of a frong strong Smell agreeable to the Pine; out- tues of the Gum, but with this Advantage, that it is excellent for Afthma's, taken about four or five Drops in some proper Vehicle. the Size of a Pea at Bed-Time, and the same Quantity in the Morning rising.

This Gum is of a thin Substance and attractive, drawing forth Splinters, Thorns, Ge. gotten into the Flesh; it has, as Hoffman affirms, a peculiar magnetick Quality, qua Intestina dislocata in Iliaca Passione ex Hernia, in pristinum reducit locum; for which Reason he made it the chief Ingredient of the magnetick Emplaster: It is also us'd in Dilaffections of the Womb, and being apply'd, it cures the Sty in the Eye-Lid. It purges Water and all gross Humours from the Stomach, Guts, Womb, Reins, Head, Nerves, &c. Is good in Dropsies, Convulsions, Palsies, Numbness, Weakness and Obstructions; besides which, it is excellent in Plurisies, to ease Pains, and dissolve hard Tumours of the Spleen; Dose, from one Dram to two Drams; but because it is apt to disturb the Stomach, it is corrected with Ginger, Cinamon and Mastich.

Sagapenum, Serapinum, Sacoponi-Lemery. um, is a Gum reddish without, and s of the Nature of Fennel: Chuse Sagapenum in Drops, that are pure, neat, and Falbanum: The acid Spirit has all the Vir- Wind, purges Flegm which is thick and

wardly of a yellowish or reddish Colour; that it is more penetrating; for which Reainwardly the whitest and least full of Dirt son it is successfully given against Obstructiand Filth that can be. This enters into se- ons of the Womb, &c. The Oil is good veral galenical Compositions. Mr. Wormes for the same Purposes, but is mostly us'd aa Danish Physician says, in a Book of his, gainst Vapours, being smell'd to or anointed that it is admirable for the Falling Sickness upon the Nostrils: It is seldom given inand Palfy; I know, by my own Experience, wardly, except in Fits of the Mother, to

25. Of Gum Opopanax.

Hat we most commonly call Opopanax, is a Gum that flows, according to some Authors, from a Fennel Plant, call'd Panax Heracleus, or Hercules's All-heal, that is brought us from the Streights, and sometimes from the East-Indies, tho great Quanties grow in Macedon, Achaia, and other Parts of Greece, having Leaves almost like those of the Fig. Tree, which are divided, or partition'd into five Parts; the Stalk is very high, and pretty woolly, producing at the Top a great Taffel or Bunch, with yellow Flowers; and after that a Seed, that is burning upon the Tongue, but of a strong Smell; the Roots are white, a little bitter, and cover'd with a pretty thick Bark. From the Cutting of this Plant, the liquid Opopanax flows, and is white at first, but when it is afterwards dry'd, it becomes, by degrees, of a golden Colour on its Surface. There are three Sorts whitish within; of a strong un- lour on its Surface. There are three Sorts pleasant Smell, of an acrid Taste, that brought from Marseilles, viz. that in Tears, lows by Incision from a Sort of Plant that that in the Mass or Lump, and that flatted or squash'd down.

The first Sort ought to be chose in fine pright; it yields Abundance of Oil and vo- Drops, white within, and of a Gold Coatile Salt, and will diffolve in Wine, Vine- lour without; of a strong Scent, and an ungar, and in Juice of Plants, but had better pleasant bitter Taste, the dryest and least sull be reduc'd to Powder, when us'd in Com- of Dirt that can be got. The second Sort, politions that-require its Diffolution: This that is in the Lump, ought to be as full of Gum is incifive, penetrating, aperitive, a Tears, and as near the Colour and Smell of ittle purgative, sudorifick; opens Ob- the First as is possible. The flat Sort is that tructions of the Spleen, Mesentery and Li- call'd the Companies Opopanax, and which ver; affifts Respiration, and strengthens the several sell for that in Tears, the it is easient to know the Difference, because the True is Milliana, to provoke Urine, and the Terms, in little round Drops, and the flat Sort of nd to suppress Vapours; Dose, ten or six- the Breadth and Thickness of one's Thumb; een Grains in Pills. There is a Spirit and take Care to avoid that which is black and Dil made from it, after the Manner as from loft, for it is naught. This Gum discusses

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tough, from the remote Parts, as from the of the Fennel Kind, that grows in Abundance Womb, Joynts, &c. opens the Breast and Lungs, fortens Tumours, and taken in at the Mouth by Fume cures Catarrhs, and the falling down of the Uvula; it is reckon'd an excellent Thing against an old Cough, Sharpness of Humours, Difficulty of Breathing; and being drunk an Hour before the Fit of an Ague, it takes away the cold Fit; especially if the Stomach and Back-Bone be anointed with the Oil hereof, or volatile Spirit; both of which possels all the Virtues of the Gum.

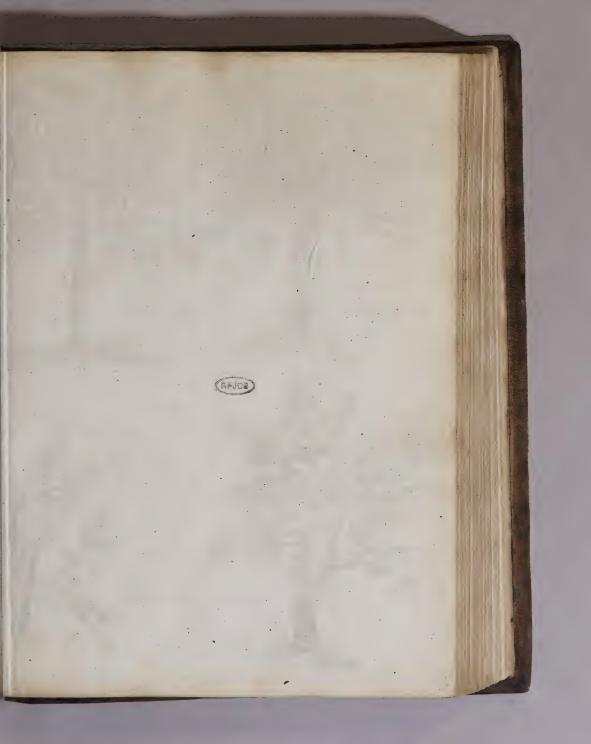
Opopanax is a yellow Gum that Lemery. is drawn by Incision from the Stalk and Root of the Sphondylium, or wild Fennel, that grows in Macedon, and other Parts of Greece. This Plant is call'd Sphondylium Majus, sive panax Heracleum quibusdam; the greater Sphondylium; or by Some Hercules's All-heal, according to J. Baubinus, Ray and Tournfort: The Stalk is high and woolly; the Leaves like those of Figs, rough to the Touch, divided into five Parts; the Flowers grow in Clusters upon the Tops of the Branches; they are small, white, compos'd each of five unequal Leaves, dispos'd like the Flower-de-lis: When these are gone, they are follow'd by Seeds joyn'd two and two together, flat, large, oval, hollow, or cut at the Top, strip'd along the Back of a yellowish Colour, a strong Smell, and pregnant Tafte; the Root is long, white, full of Juice, odoriferous, a little bitter to Taste, cover'd with a thick Bark: The Opopanax drops from the said Root in a white Liquor, which thickens as it drys, and grows yellow upon the out Parts; chuse it fresh, clean and pure, in large Drops, that are yellow without, and white within, fat and pretty brittle, of a bitter Taste, and a strong unpleasant Smell; it affords a great deal of Oil and volatile Salt, is emollient, attenuating, digesting, expells Wind; is proper in hysterick Cases, and to refift Putrefaction.

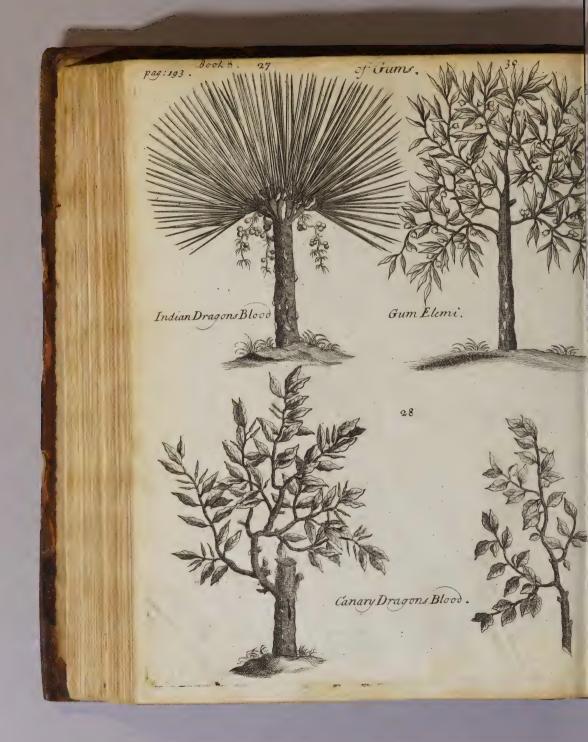
26. Of Ammoniacum, or Gum Ammoniack.

Tears, from Branches or Roots Sugar, &c. that are cut or flash'd, of a Sort of Plant

in the Sands of Libra, especially about that Place where sometime the Temple of Jupiter Ammon stood. This Gum is brought us in large Lumps, wherein we find a great many white Drops or Tears, as well on the Outparts as within; it is of a tolerable grateful Smell, inclining towards that of Opopanax. Chuse this Gum with the finest, dry, white round Drops, of a bitter Tafte, unpleasant enough; and that the Mass or Lump, be as full of Tears, and as clean as is possible. It is us'd in several topical Medicines; and Monsieur de Meuvæ, in his pharmaceutick Dictionary, attributes great Virtues to it, whereto the Reader may have Recourse. It is emollient, and a wonderful Discussive. us'd ordinarily to discuss hard Tumours in Womens Breafts with great Success: An Extract of it takes off Roughnels from the Wind-pipe, thickens thin and sharp Rheums, which fall down upon the Lungs, and is us'd in Pectorals for the same Purposes. There is, besides this, an Oil, volatile Salt, and Spirit of Ammoniacum, according to Lemery, in which Processes you have not much Difference from those of Charas, only that the Last requires the Retort to hold eight Times the Quantity, Lemery but three Times. Lemery also says there is no Need of adding Alcalies in Rectification, because they rather hurt and spoil these Kind of Spirits than make them better.

This Gum is purified by dissolving it in Vinegar, then straining it thro' a Cloth, and thickening; but if you distil it, this Work is not only needless and vain, but detrimental; because a good Part of its volatile Spirits and Salt, will be evaporated and loft; in which confifts its greatest Virtue, whilst others will be fix'd by the Acid, by which the Elevation of the volatile Particles will be hindred; for which Reason this Purification is to be avoided in Distillation. This Spirit opens Obstructions, and is us'd with Success in the Scurvy, Dropfy, and the Jaundice, as also for Stoppage of Urine, but particularly in Diseases of the Womb; Dose from eight Drops to twenty in Rhenish Wine, or the like: The Oil is given for the same Purpoles, "His is a Gum that flows in white from two Drops to fix, with double refin'd





moniaca, Gum Ammoniack, is a within, of an unpleasant Smell, almost like Galbanum, inclining to a bitter Taste: It flows in white Tears from the Branches and Roots that are cut off of a Sort of Fennel, call'd Ferula Ammonifera, or the Fennel bearing Ammoniack, that grows plentifully in the Deferts of Lybia, especially about that Part where the Temple and Oracle of Jupiter Ammon stood. Some call this Plant Metopion, from being very porous: The best Gum is in fine near Tears, almost like Olibanum, dry, white, brittle; it softens before the Fire, is easie to reduce to Powder, of a little bitterish Taste, and an unpleasant Smell. The Druggists sell that in the Mass or Lump, loaded with a great deal of Filth. that serves to make Plaisters of. This Gum, yields Plenty of essential or volatile Oil, some Flegm and Earth: It attenuates, resolves, digests; is aperitive, proper for Hardness of the Spleen, Liver and Mesentery; opens Obstructions, provokes Womens Courles, and is us'd both internally and externally.

27. Of Indian Dragon's Blood.

Pomet. THE Indian Dragon's Blood is a Gum that distils or drops from the Trunk of several Trees, whose Leaves are like Sword-Blades, of half a Foot long, and of a green Colour; at the Bottom of which grow round Fruit, of the Size of our Cherries, that are yellow at first, afterwards red, and of a beautiful Blue when ripe; from which, having taken off the first or outward Skin, it appears like a Sort of Dragon, which has given Occasion to have it nam'd, tho' very improperly, Dragon's Blood, fince it is the Gum of a Tree, and not the Blood of any Creature, as some believe still.

The Inhabitants of the Country cut the Trunks of the Trees, and there presently flows a fluid Liquor, that is as red as Blood, which hardens as soon as the Sun is gone off it, and forms itself into little brittle Tears or Crumbs, of a very fine red Colour: When the first Sort is fallen, there drops another

Ammoniacum Gummi, vel Gum- the Leaves of the same Tree, of the Figure Lemery. mibammoniacum five gutta Am- and Size of a Pigeon's Egg; but at this Time it comes folded in the same Leaves, of vellowish Gum on the Outside, and white the Length and Thickness of one's little Finger; and sometimes also of the Size and Shape of the Sebesten. Chuse Dragon's Blood in little Tears that are clear, transparent, and very brittle: The best Sort is very scarce in France, not to be met withal at prefent, but what comes in little Reeds or Flags, which ought to be dry and easie to break; and that when scor'd on Paper, or hot Glass. will leave behind it a beautiful red Stain; upon which Account, anciently, they us'd it to paint Glass red: It comes likewise in the Mass, which is like that in Tears, but the Fine is difficult to be met with.

Hoffman thinks that which is in Drops, and is the very finest Sort, is made from the Courser, by dissolving of it, depurating it from its Faces, and inspiffating; and that those Drops are first extracted with Spirit of Wine, because being infus'd, or digested in Spirit of Wine, it yields a delicate Blood red Colour; but in Water, Oil, or other Liquors, scarcely any Tincture at all. It is good to stop all Sorts of Fluxes, whether of Blood or Humours, whether Defluxions from the superior Parts, or Fluxes of the Bowels or Womb; -the Bloody-Flux, Whites and Gonorrhea, being inwardly given, from half a Dram to a Dram, mix'd with Conferve of red Roses, or some other proper Vehicle: It is good against Spitting of Blood, and stops Catarrhs, being of a drying, binding, and repelling Property. Being finely ground, it is us'd by Goldstutitis for Enamel, by Jewellers to set Foils under their precious Stones, for their greater Lustre: By Painters, Varnishers and Japanners, to make Varnish or Japan, by mixing it with common, or Shell-Lac, or Seed-Lac Varnish.

28. Of Dragon's Blood of the Canaries.

T'His Dragon's Blood is likewise a Gum that flows from the Trunk and large Branches of two different Trees; after having been cut, the one of which has a Leaf like the Pear-Tree, but a little longer, and the Flowers bear a Resemblance to Tags at the End of long Lages, of a very which is sometimes brought us wrap'd up in fine Red. The Leaves of the other come 1 70 701

low on the Edges, of the Bigness of an Hen's brittle, which being broke, is of a very Egg, in which is found a Nut of the Shape

Colour.

These Trees grow plentifully in the Canaries, especially in the Island of Porto Santo; likewise in the Isle of St. Laurence, where these Trees are call'd Rha, that is to say Blood, and their Fruit Mafontra, or Voafontra. The Natives of Madagascar make an Oil of the Kernels, which serves them to cure Burns, Eryfipelas, and other Diseases that proceed from Heat. The Islanders cut the Trunks of these Trees, from whence drops a red Gum, which they make into Balls of different Sizes: Some soften the Dragon's Blood by Means of hor Water, and so put it into Reeds, in the same Manner as those which come from India. Some People melt this Gum, into which they put little white light Sticks, and when they are cover'd with Gum, they take them out and dry them to clean the Teeth withal; and these are usually brought over by the East-India Company. That which is further to be observ'd, as the Reason why the Inhabitants call this Gum Dragon's Blood, is, because the Tree that bears it is call'd the Dragon Tree; which according to Clufius, appears to be a Kind of Date Tree, that is very full, having a very thick Trunk, about five Yards high, and fending forth several Branches or Boughs that are naked, or bare of Leaves. The Fruit is of a round spherical Figure, of a yellow Colour, and about the third Part of an Inch thick, containing a very hard Kernel, like a Date: The Trunk of the Tree is very rough, and full of Clefcs and Chaps, pouring forth a Liquor, during the Heat of the Dog-Days, which afterwards thickens or congeals into red-colour'd Drops or Tears, call'd Dragon's Blood; which tho' it hardly dissolves in aqueous or oily Liquors, yet ought to be reckon'd among the Gums and Rotins.

29. Of faise or counterfeit Dragon's Blood.

THE Dutch now bring us a Sort of Dragon's Blood, which is in flat Cakes of a very deep Red, and thining

nearer to the Cherry, and the Fruit is yel- as well on the Outfide as the Infide, pretry fine red Colour; and when burnt smells like Spanish Wax. This Dragon's Blood is noof the Nutmeg, which contains an Al- Spanish Wax. This Dragon's Blood is no-mond or Kernel, of the same Figure and thing else but a Mixture of the true Dragon's Blood with other Gums, which is so apparent, it is easie to discover by breaking the Cakes, and casting it hot upon Palm Mars. We have brought from Holland, besides this, another Sort of Dragon's Blood made of Gum-Arabick, or that of Senega, with a Tincture or Dye of the Fernambourg Brafil; therefore I wou'd advise every body not to make use of either of these two Sorts of Dragon's Blood, as partaking of nothing but the foresaid Gums, either in Colour of Smell, and being oppofite to the Properties of the true Dragon's Blood.

Sanguis Draconis, or Dragon's Blood, is a gummous Juice, con- Lemery.

geal'd or coagulated, dry, brittle, and of a red Colour like Blocd, drawn by the Incision of a large Tree in the Indies, call'd by Clusius, Draco Arbor, or the Dragon Tree: It is of the Height of the Pine, thick, furnish'd with several Branches: The Wood is very hard, cover'd with a Bark of a tolerable Thickness and soft; the Leaves are large, shap'd something like the Flower-de-lis, being of the Length and Figure of a Sword Blade, and are always green. The Fruit grows in Bunches the Size of a small Cherry, round, yellow at the Beginning, red afterwards; and when they are ripe, of a fine blue Colour, and a little acid to the Taste. Monard and several other Authors write, that when the Skin is taken off from this Fruit, there appears underneath the Figure of a Dragon, as it is represented by the Painters, with Wings expanded, a slender Neck, a hairy or briftled Back, long Tail, and Feet arm'd with Talons: They pretend that this Figure gave Name to the Tree; but I believe this Circumstance fabulous, because I never knew it confirm'd by any Traveller.

The finest and best Dragon's Blood is that which drops first from the Tree in little Tears, that are clear, transparent, and easie to break, of a resplendent Red; but this is very scarce, and not brought us in War Time, so we are forc'd to content our selves with the fecond Sort, [describ'd already by Pomet. The true Dragon's Blood yields a

sufficient Quantity of Oil, and a little effential Gum Elemi, sometimes for Gum Anime, and Salt; it is very aftringent, agglutinative, dryother fometimes for Tacamahaca; fo they
ing, stops Hemorrhages, Fluxes of the Belly, chiefly call it American Galipot, in that the deterges, and consolidates Wounds, strengthens Smell and Shape resembles it, and it is trouluxated Joynts, and is proper for Contusions, blesome to distinguish the Difference. us'd both inwardly and outwardly.

30. Of Gum Elemi.

Gum Elemi is a white Rofin inclining to be greenish, that flows by Incision from the Trunk and large Branches of a Tree of a moderate Height, whose Leaves are long and narrow, of a whitish Green, filver'd on both Sides, with a red Flower that rifes from a little Cup of the Colour of the Leaves, and the Fruit of the Colour and Shape of our Olives, which is the Reason why these Trees are call'd Wild Olive-Trees. There are Abundance of these Trees in Æthiopia, and Arabia Falix, from whence this Gum is brought us in Cakes of two or three Pounds Weight a-piece, wrap'd up in Leaves of the Indian Canes, whence it is call'd Gum Elemi in the Cane. Chuse such as is dry, nevertheless soft, of a white Colour tending to green; the Smell fweet and pleasant enough; and take Care it be not a Spike, call'd Galipot, as happens too often; which may be eafily found out, as well by the Leaves which are found among the Clove-Wood.

those who make it, the Americans Gum Elemi, serving them as a good Pretence to cover bave from Holland or Marseilles, is a natural Fallam for curing of Wounds, for which Reason it is very properly made use of in Arcaus his Liniment. There is a large Tree found in the American Islands, the Wood whereof is white, and the Leaves with Rosin, that it will yield to fifty Pounds Weight of white Gum, altogether like the Palipoe, only that is not so stinking. And as this win is but as yet little known among the Merchants, tho' common among us: So all Wounds and Fractures of the Head and

This Rosin comes in Barrels of different Weight, wrap'd up in large Leaves; for which, as yet, we have learn'd no Name. We sell, besides, two other Sorts of Gum Elemi; one whereof is like common Rosin, which has neither a sweet nor aromatick Smell, and which is cover'd with Leaves that cling to the Clove-Wood. The other Sort of Gum Elemi is of an ash Colour inclining to brown, and in great Pieces that are dry and brittle; but as it is impossible to distinguish the Difference in these two Sorts of Gums, I shall say nothing further: Nevertheless I must say, I believe that it is nothing but the impure or foul Gum, which may have its good Qualities revover'd, by refining over the Fire, which I dare not yet affirm, not being certain of it.

Gummi Elemi, sive Resina Elemi, is a Kind of gummy and refinous Lemery. Substance; for it dissolves in Oil,

and is inflammable: There are two Kinds of it, viz. the true Gum call'd also, the factitious Turpentine, made up with Oil of Æthiopian, and the Bastard or Spurious, call'd the American Gum Elemi. The true or Æthiopian Gum Elemi, is a Rosin from a its great Whitness as its ill Smell, inclining to whitish Colour, a little inclining to a Green, Turpentine; and that it is alway wrap'd up in moist and tough, run together in Lumps or Clots of a long and round Shape; for the most Vood.
Part inflammable, of a pleasant Taste, and This Rosin adulterated is call'd, from smelling something like Fennel. These Lumps are brought over to us wrap'd up in a large Leaf, appearing to be a Kind of Intheir Knavery. The true Gum Elemi we dian Reed: Bastard or American Gum Elemi is a Sort of white Rosin, not much unlike Pine Rosin, inflammable and of a strong Smell, flowing plentifully out of a certain Kind of Tree, bearing Leaves like the Bay-Tree, call'd Cleban: Parkinson saith it is a yellowith Gum, clear and transparent, which ike those of the Bay, but that they are a being broken shows more white and gummy great deal larger. This Tree is so loaded within, quickly taking Fire and melting thereat, and of a Kind of quick Scent and Tafte; if it is like Ammoniacum, or Gum-Arabick, or is black, it is good for little or nothing. This Gum is of fingular Ule in ney often sell this Galipot sometimes for Skull, and to be mix'd with Linimenes and

lient, digestive, and is anodine, discusses Tumours, and opens Obstructions: The Spirit, Oil and Ballam, are distill'd by the Retort in Sand, as hath been taught. The acid Spirit, which contains the volatile Salt of the Mixt, suppresses Vapours and Fits of the Mother, opens the Passages of the Urine, tempers the Heat thereof, prevents Breeding of the Stone, and is a good Pectoral. The Oil and Balfam are accounted, by some, specifical in the Gout, Palfy, and Convulsions; they cure Ulcers, chiefly of the Fundament, heal and cleanse all Wounds, &c. as well old as new, eafing Pain, refolving Contufions, and discussing Swellings.

31. Of Gum Tacamahaca.

GUM Tacamahaca is a refinous, liquid and transparent Gum, that flows from the Trunk of large thick Trees, that grow plentifully in New-Spain and Madagascar, where they are call'd Harame, which are pretty like our Poplars. These Trees are furnish'd with green Leaves, almost like those of the Box-Tree; after which come red Fruit of the Bignels of our green Nuts, in which is contain'd a fragrant ballamick Rofin. The Natives cut the Trunks of these Trees, whence distils a white cristalline Liquor, of an agreeable Smell, that hardens Iometime after it is fallen, and that serves for the Cure of cold Humours to abate the Tooth-Ach; but particularly to caulk Vessels and Ships with, and the Wood serves for Planks.

The Inhabitants of St. Laurence have a Custom to put the First that falls from the Tree, without Incision, into little Shells cut in two, which they cover with a great Leaf, as a Sort of Palm Leaf; and that is what some Authors mean, when they speak of Gum Tacamahaca refin'd; which to answer the requisite Qualities, ought to be dry, reddish, transparent, of a strong Smell, inclining to that of Lavender, of a Taste something bitterish; and this is what we call Tacamahaca in the Shell. That which falls from the Tree by cutting, is what we have brought in the Mass or Lump, and sometimes in Tears, in the Figure resembling Indian Frankincense, which is to be chose as full of white Drops, clean, dry, and as near the

Balfams for that Purpose; it is also emol- Smell of the former as can be got: It much resembles in Colour, Galbanum, with white Spots like Ammoniacum, strong in Scent and Tafte, and very flicking, for which Reason it is us'd to put in binding Plaisters; it is very good to soften Tumours, and ease all Manper of Pains in the Head, Nerves, Joynts and Womb: It is inwardly given from half a Dram to a Dram against Vapours, but most commonly against Pains, for which it is so famous amongst the Indians, that they use it to all Pains whatfoever, if not attended with any great Inflammation.

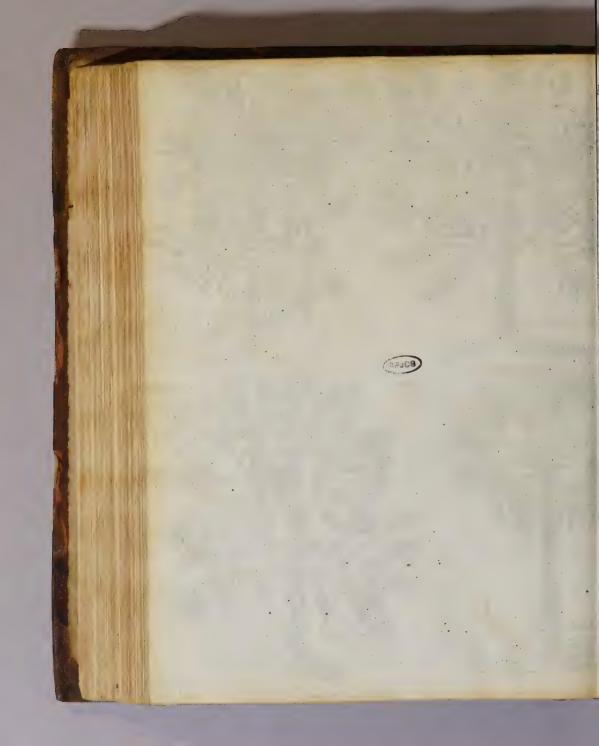
Tacamahaca vel Tacamaca, is a Kind of hard, clear, fragrant Ro- Lemery. fin, that is drawn by Incision, from the Trunk of a great, thick, unknown Tree. call'd by Parkinson and Ray, Tacamahaca; by J. Baubinus, Tacamahaca Populo similis fructu colore Paonia; or that like the Poplar Tree, with Fruit of the Colour of the Peony: It resembles much the Poplar Tree; the Leaves are small and endented, the Fruit the Bigness of a Nut, of a red Colour, refinous, odoriferous, and contains a Stone almost like that of the Peach. This Tree grows plentifully in New-Spain, and feveral Parts of the West-Indies, being gather'd from the Tree after wounding.

We have two Kinds of it; one which is brought over in Shells, that is foft and whitish, of a very pleasant fragrant Smell; the other in Lumps, and comes in Chefts, which is nothing near fo good, but for the most Part is very foul and drossy; both yield a deal of exalted Oil and volatile Salt. The Gum Tacamabaca is digestive, resolutive, neurotick, anodine, cephalick, drying, being apply'd externally. There is an acid Spirit, Oil and Tincture made from this Gum, which open Obstructions of the Womb and Mesentery; are anodine and stomachick, taken a few Drops in any generous Liquor; or the Oil is good externally to smell to, and anoint old running Ulcers with, to cleanse and heal them, as well as to discuss hard Knots and Tumouts.

22. Of Gum Ivy.

UM Ivy is a liquid Rosin which Pomet. hardens as it flows: This Gum abounds in the Indies, Italy, Provence, and Langue-





one's Finger, which I beg'd of Mr. Chican- publick Rejoycings, and Feafts of Bacchus. neau's Son, which he gave me; and after I red Colour, a strong penetrating Smell, and unpleasant enough: After having kept it yellowish Colour, just as we have it come from India by Marseilles: Chuse the best dry'd, clearest, of a balsamick Smell; and take Care that you be not impos'd upon with the Gum Alouchi, which is sometimes sold in its stead, especially when dear. This is reckon'd proper to make the Hair fall, and for the Cure of Wounds.

Hedera Arborea, or the Ivy-Tree, Lemery. is a Shrub, or Tree, whose Branches, creep up and cling to the next adjacent Trees, or Walls, and infinuate themfelves into the Cracks thereof, and into the Chinks of Stones, where they will fix a deep Roor: The Bark is wrinkled, ashcolour'd, and the Wood hard and white; the Leaves are broad, large, corner'd thick, smooth, green all the Year, and shining, of an astringent acrid Taste. The Flowers grow at the Extremity of the Branches, compos'd each of fix strip'd Leaves of a graffy Colour, succeded by round Berries, that are a little fleshy, and as large as those of Juniper, dispos'd in Clusters, of a black Colour when ripe; they contain each five Seeds, furrow'd on the Back, and flat on the other Side: The Ivy grows generally upon Walls, and yields Abundance of Oil and some effential Salt: It is deterfive and vulnerary; the Leaves are apply'd to Issues and Cauteries, to cleanse them from their Sanies; they are likewise boil'd in Decoctions for the Ear-ach and Tooth-ach.

Poetica by C. Baubinus and Tournefort, and Hedeep a Colour; the Berries are of a fine Gold colla, of each a Dram and half. Diffolve the

Languedock, from the great Ivy that creeps or Colour: This Species of Ivy is rarely met climbs upon Trees and Walls. Being at Mont- with in France. The Ancients made Crowns pellier, in the Year 1680, and walking in the of it, with which they crown'd their Poets, King's Garden, I perceived an Ivy there that from whence it is call'd Hedera Poetica, The climb'd up a Bay Tree, having on the top's Poets Ioy, Hedera Dionysias aut Bacchica, be-Branch a Piece of Gum of the Bignels of cause they made Use of this Sort of Joy in their

They make Incisions in the Trunks of the had examin'd it, I found it like Glue, of a larger Ivies in the hot Countries, as Italy Languedoc, and Provence, to make a Gum or Rosin flow, which hardens in a little time, fome Time it grew dry, brittle, and of a and which they call Gummi Hedera, or Gum-Ivy; it ought to be of a reddish yellow transparent Colour, of a strong Smell and an acrid aromatick Tafte. The greatest Part of it that is fold by the Druggists comes from India by Marseilles; it yields a good deal of Oil and Salt, and is us'd externally to the same Intentions as the former, and is sometimes put into the Oyntment of Althaa.

33. Of Gum Caranna.

HE Caranna is a Gum that Pomet flows from the Trunk of fe-

veral Trees, like the Palm Tree, which are plentiful in New-Spain. This Gum is brought us in the Lump, wrap'd up in Reed Leaves; it ought to be soft as a Plaister, of a greyish Colour, inclniing to Green, of a sweet Smell, and fomething aromatick.

Some Authors observe that the Caranna is White, which I easily believe, when it is newly fallen from the Tree; it is also of the Colour aforesaid, except by reason of irs Age, but the whiter it is, the more valuable, and have nothing to do, with feveral hard Gums that are offer'd in its stead, because of its Dearness. This Gum apply'd in a Plaister upon the Head, is admirable to abate the Pains thereof, as well as those of the Joynts; and this Gum has such fine Qualities, that it is usually said, What Tacamabaca cannot cure, Caranna can.

The Americans compose a Balfam from There is another Sort of Ivy call'd Hedera this Gum, which they with good Success, for the Cure of Wounds and Hemordera Dionysias and Chrysocarpos, because the Ivy- rhoids in this manner: They take fine Tur-Berries are of a Gold-Colour: The Leaves pentine half an Ounce, Liquid Amber three of this are not so angular, but only sharper Ounces, Balsam of Copal, Tacamahaca, Catowards the Top, less thick, hard and fleshy ranna, of each two Ounces; Mastich, Myrth, than those of the other Ivy, and of not so Aloes, Frankincense, Dragons sheet Sarah

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Gums and Rosins upon the Fire, and after of a pretty good Taste; and others will incorporate them with the Powders. Gum have it resemble that which bears the Caranna is mightily commended for its Fa- Myrrh, and that these Trees abound in culty of discussing or asswaging hard Tu- Media, Arabia Fælix, and the East-Indies, mours: It is also apply'd to the Temples and is likely to be that Bdellium which we upon small Plaisters or Patches in the Head-Ach, or to prevent and restrain the falling down of the Humours upon the Eyes and Teeth. There is also prepar'd from it an excellent antipodagrick Plaister to be apply'd to gouty Swellings.

It is call'd Caranna Gummi, or Lemery. Caragna, from Cartagena the Place of its Production in the Spanish West-Indies, where it is in great Plenty, flowing out of a Tree cut or wounded. It is a hard Rosin, clammy but not glutinous, sofunlike Tacamahaca, but more odoriferous and fweeter, and of fomething a brighter Colour, it comes wrap'd up in its broad fibrous

Leaves like Reeds.

It is a famous Cephalick, Neurotick, Arthritick and Vulnerary; eafes all manner of Pains in any Part of the Body, proceeding from a cold and moist Cause, strengthens weak Limbs, and is accounted excellent to stop Defluxions from the Glands, being apply'd Plaisterwise to the Temples; It eases the Spleen, and diffolves the Hardness thereof mollifies Swellings, and cures green Wounds, chiefly of the Nerves and Joynts; Dole inwardly from a Dram to two Drams. There is a Spirit Oil and Balsam made from Caranna: The volatile Spirit is aperitive, and opens Obstructions of the Reins, &c. Dole from ten Drops to twenty in any proper Liquor. The Oil is good against Lamenels, Pains, Aches, Convulsions, &c. anointed upon the Parts affected. The Balfam is excellent to heal and consolidate Wounds, to Arengthen the Nerves, &c.

24. Of Gum Bdellium.

Bacients spoke variously; some faying that it flows from the Trunk of a thorny Tree whole Leaves are like those of the Oak, and the Fruit like the wild Fig,

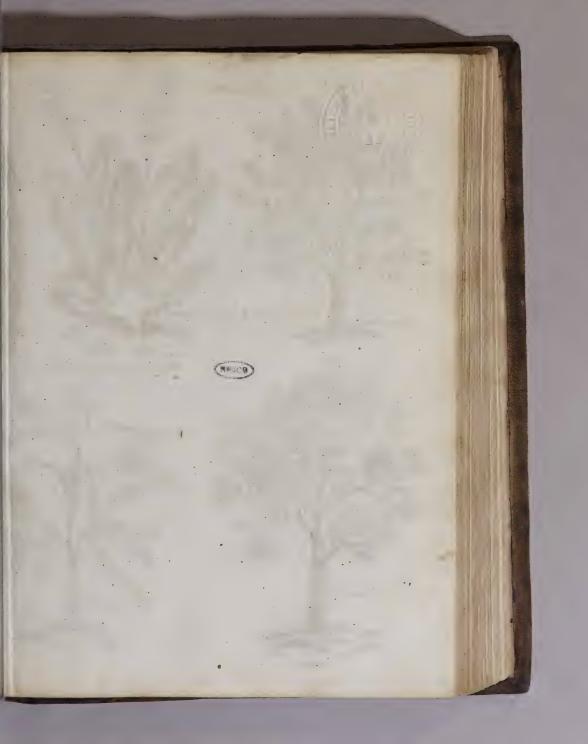
have brought at this Day from Marfeilles, which is no other than the Gum Alouchi, which some will have to be the true Bdellium, which is chose in clear transparent Pieces of a reddish grey without, and the Colour of English Paste within; and that when lick'd by the Tongue, turns of a yellow Colour.

Bdellium is a vellowish or reddish Gum, that flows from a thorny Lemery. Tree call'd Bdellia, growing in Arabia, Media, or the Indies. They say that it bears Leaves like those of the Oak, and to and tough, of a dark olive Colour, in- a Fruit resembling the Wild Fig, of a pretty chining a little to a Musk Colour; it comes good Tafte. This Gum is brought us in forth foft, but condenses afterward, not much Pieces of different Sizes and Shape, but the finest is usually Oval or in fathion of Pendants for the Ears, neat, clear, transparent, reddish, fragrant, and that easily softens, of a Taste inclining to bitter, it yielding a good deal of Oil and volatile acid Salt; is digestive, discussive, sudorifick, drying, aperitive, serviceable in the Empyeina, to provoke the Terms, hasten the Birth, and to refist Poison; us'd both externally and internally.

35. Of Gum Sarcocol.

S Arcocol is a Gum that flows from Pomet. a little prickly Shrub, whereof the Leaves are like Palta Sena, of a white Colour tending to yellow: Almost all Authors say, that these Shrubs grow in Persia; but two Friends of mine at Marseilles writ to' me in July 1692, after this manner, That Sarcocolla was a Gum that is gather'd in the Defarts of Arabia, the Tree being little and very thorny; chuse that in Tears or Grains; of a white Colour, inclining to yellow or red, of a sweetish Taste, attended with an unpleasant Bitterness.

This Gum is wonderful in its Kind, in that it flows from a Tree without Incision, and by Incision in Tears or Drops of different Colours and Bigness, being white, yellow and red; and when they are dry, are granulated or in Grains, as they are brought





to us from Marseilles. There is besides another Sort of Sarcocol which is in the brown Lump, and looks like a Composition; but I take it to be nothing but the damag'd Gum that ought to be thrown away, and that is very full of Dirt, and other Filth, to which it is much subject. This is very proper for curing of Wounds, which made the Greeks call it Sarcocol, which fignifies Flesh Gum. It is consolidating and repelling, us'd chiefly to heal Wounds, stop Fluxes in the Eyes, and clear them from any Clouds, Films, Pearls, &c. that may hinder the Sight; it is good to purge the Head, and therefore profitable against Coughs, Shortnels of Breath, especially in Persons that are Flegmatick; outwardly it is us'd against Inflammations of the Eyes, and to heal Ulcers in the Ears: The Fume thereof from Charcoal, receiv'd up the Fundament, cures the Piles, and other Diseases of those Parts.

Sarcocolla, or Flesh Glue, is a Lemery. granulated Gum in very small Bits that are spongy, of a yellowish Colour tending to white, resembling the broken Pieces or Remains of a Gum, or of Frankincense that hath been grossly powder'd. We have it brought us from Arabia; where, as some say, it comes from a thorny Shrub, whose Leaves are something like Sena.

Sarcocol is of such a brittle Nature that it moulders down into a gross Powder only by shaking or handling it; wherefore it is commonly brought over to us in small Grains, not much bigger than Poppy Seeds; yet fometimes we meet with some that are bigger and thicker: They are of several Colours, viz. white, brown, and red, of a bitter Tafte, with a certain nauseous Sweetness; and being chewed between the Teeth they become rough; being held to the Flame of a Candle, they first boil or fry, and then send forth a clear Fiame; it stops and prevents the Defluxion of Humours upon the Eyes, and takes away Spots, or white Specks over them, being steep'd in Asses or Womens Milk. Moreover, Sarcocol agglutinates Flesh, and conduces to the Confolidating of spungy Rose-Water.

36. Of Euphorbium.

EUphorbium is a Gum that flows from among thick prickly Pomet.

Leaves, in the Nature of a Shrub-Tree, that is found in great Quantities in Lybia, upon Mount Atlas, and in Africa. The Ancients have writ variously upon the Nature of Euphorbium, and of the Manner of gathering it; some saying that it flow'd by Means of wounding the Ends of the Plant with Iron Instruments, from whence came a Smell that was very mischievous, and likewife that the Leaves were cut, by which Means there came forth a white Juice, like Milk, which was receiv'd in Sheep-Skins: And others will have it that it was a thick Juice, from a Green of about the Size and Shape of our Cucumber. But those who have feen it as well as my felf, can attest that it is no fuch thick Juice as suppos'd, but the Gum of a Tree. And besides, I can assure you 'tis fo from the Sight of the Leaf, which is the Length and Thickness of one's Thumb, of a quadrangular Shape, each Corner of which is found full of sharp Thorns, at the Bottom of which is the Euphorbium which is gain'd without any Incision, according to the Figure mark'd A. Chuse the newest, of a white Colour, inclining to Gold; the least full of Dirt, the dryest and cleanest that is possible.

There is Abundance of little Berries to be met withal in Euphorbium, made in the Shape of a Priest's Cap, very light, of the Colour of Coriander, in which is contain'd a little round Seed, like a Pin's Head, which some have affur'd me is the Seed of a Plant which brings forth the Eugenetism. This Drugg is not much used in Moducon, because of its immoderate that, and prease Acrimony; but much more by the Post of Galls in Horses. The Africans use this Guminternally, but they wash it first in Poppys Water to abate the Heat of it.

Wounds. There is an excellent Eye-Water made of Sarcocol, freep'd in Nuries Milk, enclose'd in a hollow'd Quince, which being with Muclage of Quince Seeds made with McClage of Quince Seeds made with a cover'd over with a Patte, is bak'd in an Oyen: It ought to be corrected with Vines.

gar, Juice of Lemons, or four Pomegranates; or elfe with the Flegm or Spirit of Vitriol: By a chymical Analysis it yields a great deal of Oil of a most stinking Smell, and a hot burning Taste; moreover an acid Flegm, and a tharp, concreted, volatile Salt is extracted from it. Euphorbium purges violently from five Grains to twelve, and is us'd against the Dropsy and lethargick Distempers. The Pills of Euphorbium of Quercetan, are prepar'd from it, being good against intermitting Fevers: It is us'd in the Pills of Nitre of Trallianus, in Mesue's Pills of Hermodactyls, in the Great or Roman Philonium.

Euphorbium, fo call'd from Euphor-Lemery, bius, Physician to King Juba, who first introduc'd it into Practice, and with it cured Augustus Casar: This is a yellowish Gum in little brittle Pieces, very actid and burning to the Taste; it slows by cutting from a Sort of Ferula that bears the fame Name; the Bark is hard and thorny; the Leaves about the Length of a Man's Finger, and thick, of a quadrangular Form, garnish'd at each Angle with a great Number of little Thorns. It grows in

big as Peale, and almost like Sarcocol, and is in Bladders as clear as Glass: Chuse that which is white, bright, pure, or yellow and sharp, which, with a small Touch, makes the Tongue burn; it is the better for being old, Age abating its Sharpness, which whilst the Gum of a Plant; Dioscorides affirms, that it proceeds from a Kind of Lybian Ferula being cut; it is adulterated with Gum Sarcocol, and Juice of Tithymal or Spurge; it purges serous and watery Humours, but is Piles. violently inflaming; it is administred with great Caution in Dropsies, Gouts, Palsies, and Green Sickness; for it powerfully opens the Womb, provokes the Terms, and brings away both Birth and After-Birth.

37. Of Olibanum, or Male-Frankincense.

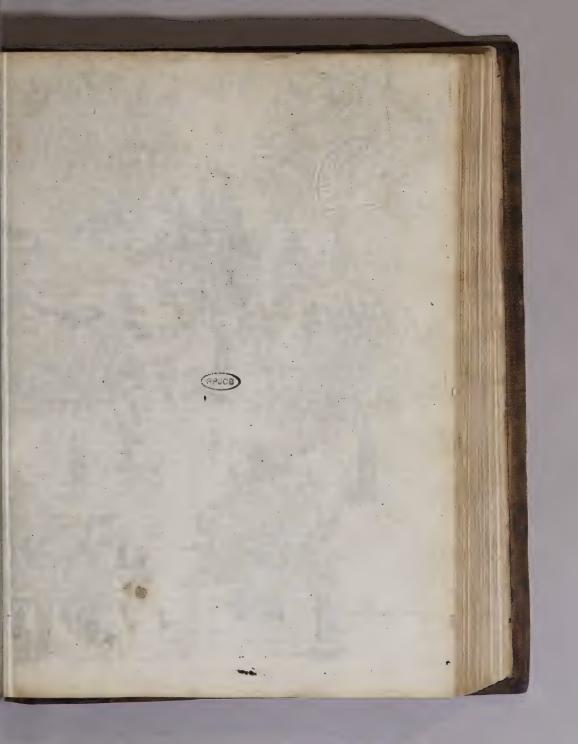
HE Olibanum, which we usually call the Male-Frankincense, is a Gum that flows by Incision from the

Trunk of feveral Shrubs which are found plentifully in the Holy Land, and in Arabia Falix, where they grow in great Quantities, especially at the Foot of Mount Lebanon; and by Corruption of the Language Olibanum and Frankincense, because the Ancients made use of it for an Incense to their Gods. From Arabia Falix they transport it by the Red-Sea to Egypt, from whence it comes to Grand Cairo, from Grand Cairo to Alexandria, where it is imbark'd for Marseilles. Several Persons write, that when they cut the Trunk of the Frankincense-Tree, and it begins to drop, no Body, save one that is reputed holy in the Family, be permitted to gather it. Chuse the finest white Tears, inclining somewhat to a Gold Colour, which being chew'd, makes the Spirtle white as Milk, and is of a bitter unpleasant Tafte; throwing such aside as is full of Dust and Leaves, and little yellow Pieces, to which it is very subject : Its Use is for several Compositions, as well chymical as galenical.

This Olibanum drops from the Tree plentifully, in roundish Drops, some bigger, some less; scarcely any of them exceeding the Size of a Horse Bean, and it falls pure, without either Bark, Wood, or any other It is yellow and clear, in hollow Drops as thing flicking to it, and of a yellowith White; of which, the whiter it is the more it is esteem'd. This resinous Gum strengthens the Bowels, stops Fluxes and the Gonorrrhea in Men, with the Fluor Albus in Women, taken from one Dram to two in Jelly of Isinglass: It is cephalick, cardiack fresh is not to be us'd. Dodonaus saith it is and pectoral; comforts the Head, and revives the Memory, suppresses Melancholy and the Vapours, and abates vehement Coughing, Hoarfeness, and Catarrhs: The Fume taken up the Fundament cures the

38. Of Moca Frankincense.

THE Frankincense of Moca is nothing elfe but a Kind of Oliba-num in little Tears, or in the Mass, much loaded with Dirt, of a reddish Colour, fomething bitter to the Tafte, that is brought into France by the East-India Company; upon which Account it is call'd, the Company's Frankincense, Olibanum, or Indian Frankin-





cense. They never sell it but to counterseit the former, for the true Bdellium, tho' never so improper.

39. Of the Manna of Frankincense.

Pomet. THis is little round Grains, that are clear and transparent, which is to be found in the Olibanum, and which ought to be us'd for the same Purposes, and after the same Manner as Olibanum.

Thus, or Frankincense, is a Kind Lemery, of white or yellowish Rosin, which yields a great Smell and Persume when thrown into the Fire; it is drawn by Incision from a little Tree, the Leaves whereof are like the Lentisk, and which grows plentifully in the Holy Land, especially about Mount Libanus; they call this Tree

Thus, of Arbor thurifera; the Tree bearing

Frankincense.

The First that flows from the Tree in clear pure Tears or Drops they call Olibanum, Melax, Thus Masculum, or the Male Brankincense; that which falls confusedly on the Ground, and is sometimes mix'd with the Pieces of the Bark of the Tree, or with fome other Impurities, is the common Frankincense which some call Female Frankincense; it is in the Lump, yellowish, soft, fat, very apt to take Fire and odoriserous. That which is call'd the Manna of Frankincense is the Olibanum in small Grain or Seed, that is round and pure, carrying the Colour of fine Manna; this Sort yields Abundance of Oil and volatile Salt. The Olibanum is deterfive, a little astringent, sudorifick, proper for Diseases of the Breast, for the Pleurisy, to strengthen the Brain, for the Scouring of the Guts, being taken internally, and us'd externally to deterge and consolidate Ulcers: The common Frankincense is detersive, and deficcative being mix'd in Oyntments, Plaisters and Perfumes.

The Bark of the Tree, from whence the Frankincense stows, is call'd, Thymiama, Thus Judcorum, or the Frankincense of the Jews; it is call'd Thymiama from smelling sweet in burning, because they burn this Bark in the Churches, or their Houses, to persume 'em: It ought to be chose thick, far, or resinous; smooth, fresh and fragrant; it is detersive and drying.

40. Of Gum Copal.

THE Gum Copal, which we call Oriental Copal, is a clear transparent Rosin, of a golden Colour, that slows from the Trunk of several Trees, of a moderate Growth, adorn'd with green Leaves, as expres'd in the Figure; and with a Fruit that is like our Cucumbers, of a dark grey Colour, in which is to be found a Meal, or Flower, of a very good Taste.

Chuse this Rosin in fine Pieces, of the most beautiful yellow Colour, and largest Size that can be had, that is easie to break or crumble; and which, when put into the Fire, melts presently, and yields a Smell like that of Olibanum. This Rosin is very seldom brought into France, because its Use is little known, altho' it is often met with in both the Indies: But in the Room of this, we have another Gum Copal brought from the American Islands, which some improperly call Karabe. This Gum flows, without cutting from the Trunk and Branches of several large Trees, like our black Poplars, that grow plentifully upon the Mountains of the Antilles, from whence it is brought along the Rivers, by Means of the great Rains and Torrents of Water that pass by the Roots of these Trees, where this Gum falls naturally: Its Use is to make Varnish of, with Spirit of Wine, and to fell instead of the true Karabe, tho' very improperly, because it is scarce any thing like it, smells little when burnt, and is no ways useful to allay the Vapours: Besides, it is so like the Gum Senega, that there is nothing but the Colour, and the not Dissolving in Water to discover the Difference by.

41. Of Cancamum, or Gum Cancamy.

This is a Drugg that is controverted even to this Day; some Pomet. affirming it to be Gum Lac, others Myrrh, Benjamin, or Turmerick, But Mr. Brisot, a Physician at Paris, at his Return from his Voyage to the West-Indies, brought into France a Gum of four different Colours, which a great many People scarcely believe;

mentioned it; but I can attest the Truth of this, having a Piece by me of the Size of one's Finger, where the four Sorts of Gums

are sticking together.

The Tree that bears these four Sorts of Gums is of a moderate Height, and the Leaves like those of Myrrh, that grow every where in Africa, Brasil, and in St. Christophers, from whence this Piece came, which was given me by a Friend of mine the 30th of July, 1686, who went thither with a Person of the first Quality. That which resembles Amber, being burnt dissolves, and has the Smell of Gum Lac; the Second, which is black, melts as the other, and has a much sweeter Smell: The Third, which is like Horn, is almost without Smell, as well as the Fourth, which is the Gum Anime; but fince we have none comes to Paris but the Anime Kind, chuse such as is white, dry, brittle, and of a good Smell. This Gum is very little us'd in Medicine, tho' endow'd with a great many good Qualities, being a natural Ballam: Some wou'd put off, tho' very wrong, Gum Anime for Gum Elemi.

Gummi Copal, sive Pancopal, is Lemery, a whitish soft Gum, of a very good Smell, a white yellowish Colour, and fragrant, brought from Hispaniola, and other Places of the Spanish West-Indies. Some Authors have thought this Gum, and Gum Anime, to be all one; they may posfibly be comprehended under one Genus; but I am confident that Copal is a Species different from the other; for Copal is a fine, clear, transparent, white Gum, in somewhat greater Pieces, and very odoriferous, tho not alrogether to sweet as the Anime is; and with this Copal it is that the Indians, instead of Incense, persume their Sacrifices in their they first came among them.

and is the fatter; Gum Copal is more pure, clear and white, and not fo fatty as the other; so that of the Two, the Copal is indeed the more excellent in Substance; but the Anime is the more adoriferous, and to be chosen before the Copal, if it be for a medicinal Uie; but the Copal is to be chosen before the Anime, if for any other Purpoles.

notwithstanding Dalechamp, and others, have clotted together, and resembles several Sorts of Gums or Rosins united, or sticking close one to the other, as one entire Gum: Some will have it to be a Species of Amber, others of Gum Anime; some of Benjamin, and some again of Lac; whereas all the Cancamum we know comes from Arabia, and most of the others are unknown there; so that it rather appears to be a fingular Species or Kind of itself, and the true Rosin of a Tree growing in Arabia: As to its Virtues, Experience confirms that it strengthens the Stomach and Bowels, kills Worms, and opens Obstructions of the Spleen. You may make a good Varnish by dissolving it in Spirit of Wine tartariz'd, or good Spirit of Turpentine, as you make Varnish of Gum Anime, or of Seed and Shell Lac.

42. Of Gum Lac in the Stick.

HE natural Gum Lac, or that in the Stick, is a reddift Gum, Pomet. that is hard, clear, and transparent, which is brought us, adhering to little Sticks or Reeds, of the Thickness and Length of one's Finger, from the Kingdom of Pegu. whence it is brought in Quantities.

This Gum, according to the Relation of the Sieur Roffeau, who was a long Time in the Indies, especially in Persia and Pegu, where they gather this Gum Lac, fays, that in those Parts there is a vast Quantity of Infects, like our common Flies, that gather together the Dew which is found on feveral Trees, after the same Manner as we observe our Bees; and when they are full of this Dew. they discharge it upon whatever they meet with: So that the Inhabitants of those Places stick a great many Branches of Trees, Sticks or Reeds, as we do here in the Ground for Temples, as the Spaniards observ'd when Pease, or the like, to run upon; so that the Flies may discharge their Loads of Dew Now Gum Anime is also a whitish Gum, upon those Sticks, and the Sun dry 'em to a Gum that is hard and dry, just as we see it; which is not unreasonable to suppose, since all the Lac we have brought over, sticks upon different Pieces of Wood, and likewise upon little Reeds. Besides, it is easie to see, that this Gum does not flow from these little Pieces of Wood on which it is found flicking; because there is no Footsteps or Ap-Cancamum is a very scarce Gum, which is pearance from whence such a Matter shou'd

proceed. That which makes the Beauty Spanish Wax, which is the chief Use of it. the most beautiful Red, imaginable; and that it was the Tip, or some Part of these Flies Animal Cocheneal, and not the Mestick Cocheneal, which we have treated of before.

When this Gum is in Pefection, they gather these small Sticks loaded with Lac, which they keep to make a Tincture of, and to trade with feveral Nations, especially with red, clear, transparent Rosin, which Lemery, the Dutch and English, from whence we have is brought us from Bengal, Malait, which is what we call Stick-Lac, or Lac in the Cane. Chuse this Gum clear and transblack Gum, and other Filth, to which it is very subject; and which being chew'd, Colour: 'Tis with this Dye that the Indians stain their Linnen, and the People of the Levant what we call Turkey-Leather; and the Indians make the Wax we name from thence Indian Wax: The Dutch and English make Scarlet of it.

When the Dutch and English wou'd make the Stick-Lac good, they grind it flightly in a Mill, and that which passes thro' the Cloaths. they make use of for Dying: The Remainder, which is the worst, they make a Tincture of, by the Affiltance of some Acid, to extract it; and afterwards dry this, and then form it into Balls, such as are brought to us, and which we call Lac in Grain, which being well disfolv'd, approaches the nearest to the Quality of the Stick Gum that can be.

When those People afore-nam'd, wou'd make the Gum Lac flat, they take such Lac from the Cane as is mention'd before; and when it is melted, they cast it upon a Marble, and make it flat and thin, as we now fee it. The English have brought into France, for many Years, a large Quantity of the finest Gum Lac, made in the Shape of Ears, whence it has receiv'd the Name of Ear or diffolv'd; for all the Gum Lac that is not made of the Gum Lac melted or liquefied

and Goodness of this Gum, is the Quantity As for the flat Sort of it, it ought to be of Flies that are in it; for the said Sieur shining, clear, transparent, the least rugged, Rosseau has assured me, that the Head of of the highest Colour, and the thinnest that these Flies, put into Spirit of Wine, makes may be. As to the third Sort, which is fit for nothing but Spanish Wax, the Dye having been drawn off, it ought to be the that made them be call'd, with just Reason, the least burnt, and best dissolv'd; for the Gum in Grain is almost entirely an Abuse; for it is a Hazard to meet with it melted, for which Reason the Makers of sealing Wax grind it again, least it should not melt.

Lacca, or Gum Lac, is a hard,

bar, Pegu, and several other East-India Provinces, adhering to little Sticks, about the parent, well melted, the least full of Sticks, Length and Thickness of one's Finger; they pretend it is made from the great wing'd Ants, or a Kind of Flies refembling our tinges the Spittle red, and boil'd in Wa- common Flies, which draw a Juice from ter, with any Acid, produces a fine scarlet the Substance of certain Trees, and difcharge the same upon the Boughs of others, or else upon Sticks or Reeds, set up for that Purpose; which being dry'd into a Gum, [as before describ'd in Pomet,] is call'd Stick Lac; you ought to chuse such as affords the highest Colour, near, clear, a little transparent, that will melt upon the Fire when it is lighted, yields a pleasant Smell, and being chew'd tinges the Spittle of a red Colour; and likewise boil'd in Water with any Acid, strikes a beautiful scarlet Dye. This Gum yields Abundance of Oil, a little volatile Salt, some Earth and Flegm; it is incifive, penetrating, deterfive; it purifies the Blood, excites Sweat, and Womens Courfes; facilitates Respiration, resists the Malignity of Humours, and strengthens the Gums.

They fell at the Druggists a flat Gum Lac, which differs not from the other, but as it is separated from the Sticks, dissolved and cast upon a Marble, it looks like Glass of Antimony: They have likewise Lac in Grain, or little Bits; but usually it is not so good as the other, because there remains the groffer Parts of the Gum, after the Dutch and English have taken the scarlet Tincture Gum. As to the Choice of Gum Lacs, the off from it. This Grain Lac is us'd for principal Thing is to have them well melted, fealing Wax. The Indian fealing Wax is diffolv'd, is good for nothing but to be and colour'd with Vermilion, and is much thrown away, especially that defign'd for better than that made in France, because it is

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which, that of France is generally of the position. worst Lac in Grain, Rosin and Vermilion. The black fealing Wax is ting'd or colour'd with Smoak Black; the Yellow with Orpi-

ment, &c.

They give the Name of Lac to several Kinds of dried Pastes or Crayons, which the Painters use to paint in Miniature, and in Oil. That which is call'd fine Venetian Lac, is made with Mestich Cocheneal, which remains after drawing off the first Carmine: These they prepare better at Paris than Venice, and make 'em up in little, foft, brittle Troches of a deep red Colour. That which is call'd Dove colour'd Lac, or flat Lac, is made with Shavings of Scarlet, boil'd in a lixivium of white Pot-Ashes, Chalk and Alum, which they form a Paste of, and make into Tablets to dry; the best is made at Venice. There is a certain Tincture made of Brasil Wood, the Painters call Liquid Lac.

43. Of Indian Wax.

THE Indian Wax is made of Gum Lac, melted and colour'd with pale Vermilion, and afterwards form'd into round or flat Cakes, in the Manner as we now have them: Chuse such as are well mix'd, fmooth, the least full of brown Spots, and of the deepest Colour you can get. This Wax is of no other Use than to seal Letters, and ought to be that which bears the Name of the true fealing Wax, and not that which is mix'd and traded with at Paris, which is no other than the Grain Lac, ground and incorporated with melted Rosin, and by the Addition of a little Vermilion, is that fold amongst us. And as this Wax is of a base Colour, it is a Sign they put in very little Vermilion, but only cover their Sticks over flightly with a good shining Red, which Cheat is easie to discover by breaking the Sticks, and seeing that they be of the same Colour within as without: I Wonder why this Kind of Wax shou'd be so falsely call'd Spanish Wax, fince the Spaniards never make Cairo, which was fold to a Person who let it, but are entirely ignorant of it. There me see it; we found it to be very hard, of are several other sealing Waxes, made of a golden yellow Colour, and a Citron Smell. other different Colours as black, yellow, Bu fince that a Friend of mine gave me one So, besides perfum'd Wax, that is made by Ounce, which he brought himself from

compos'd of choice Gum Lac; instead of adding a little Civet or Musk, to the Com-

44. Of Balfam of Judea, or Balm of Gilead.

THE Balfam of Judea, which we usually call, Opobalsamum, Pomet. Egyptian Balsam, or Balsam of Grand Cairo, is a liquid white Balsam, that flows during Summer from the Trunk of a Shrub, that bears Leaves like Rue, and white Flowers shap'd like Stars; in the Middle of which rifeth little Berries, that are sharp at the End, in which is a small Kernel; This little Fruit we call Carpobalfamum, it sticks to the Branches by Means of a small Stalk, is green at the Beginning, and grows

brown as it ripens.

Fericho was once the only Place in the World where this true Balfam was to be found; but fince the Turks were Masters of the Holy Land, they have transplanted this Shrub into their Gardens at Grand Cairo, where they are guarded by several Janisaries, during the Time the Balfam flows. A Friend of mine, who had been at Grand Cairo, affur'd me, that they cou'd not get a Sight of these Shrubs, which are defended with very high Walls, as well as the Soldiers, from any Christian's entering: And as to the Balfam, it is almost impossible to get any upon the Place, unless it is by Means of some Embalfador at the Port, to whom the Grand Signior has made a Present of it, or by the Fanisaries who watch this precious Balsam; by which we may understand, that what several Cheats pretend to fell for true Balfam, is nothing but white Ballam of Peru, which they prepare with Spirit of Wine rectified, or with some Oils distill'd.

But as it is met with sometimes in the Inventories of the great Lords; so in 1687, there happen'd to be sent a Quantity from Madam de Villefavin, which was found to be about fourteen Ounces of this Balfam in two Lead Bottles, as it came from Grand

Grand

like that of Turpentine of Chio, and of the Smell abovefaid, which is the true Sign of its Goodness.

45. Of Carpobalfamum.

THE Carpobalfamum is, as I have said, the little Berries of the Balfam Shrub, which to have their due Qualities, ought to be new, of an aromatick Taste, and a pretty pleasant Smell, especially when they are new; they are of some medicinal Use, but principally for the great Treacle, wherein they require no other Preparation but to be chose true, and freed from their little Stalks, empty Shells, and fuch as are Worm-eaten amongst them.

46. Of Xylobalsamum, or the Balfam Wood.

Pomet. This is the Trunk and Branches, strip'd from the Leaves and Seed of the Balsam Shrub, which we have brought in little Fagots from Cairo to Marseilles; and they bind this Wood up every Year now, because the Turks love rather to make Profit of it than burn it. Chuse your Balfam Wood in little Rods full of Knots, of a reddish Bark without, and a white Wood within, the most refinous and aromatick that can be got: The chief Use of it is in Troches, without any other Preparation than the Choice abovesaid.

47. Of Balfam of Mecha.

THE Turks, who go a Pilgrimage every Year to Mecha, bring from thence a certain dry white Balfam, in Figure resembling white Copperas cal-cin'd, especially when it is stale. The Person who made me a Present of about half an Ounce affur'd me, that he brought the same from Mecha, liquid, and that the Smell is the lame as observ'd before: The same Person likewise did testifie to me, that it was as good as Balm of Gilead.

Grand Cairo, and was of a folid Confiftence, venereal Defease; the Spirit is of great Value, by reason of its balsamick Astrictions, being beneficial to the nervous and membranous Parts; for it contains a volatile, subtil, and deterfive Salt, which mundifies strongly, by which it takes away the Viscofities, Impurities and other Diseases of the Lungs, Ureters, &c.

Balfamum Judaicum, Gileadenfe, verum Egyptiacum, Syriacum, de Lemery.

Mecha, the true Syrian Balsam or Balm of Gilead; this preceeds from a small Tree or Shurb, that grows no where but in the Valley of Jericho in Gilead, and in Arabia Falix; but fince the Turks have been Masters of that Part of the World, they have transplanted these Trees into other Parts, where no Christians are permitted to approach by the Command of the Sultan, who has appointed Soldiers to guard every one of these Trees perpetually : This Tree rises to the Height of shrub Trefoil, bearing a few Leaves like those of Rue, or rather like the Leaves of the Mastick Tree, being always green, and confisting of three, five, and sometimes of seven Wings: The Branches are odoriferous, refinous, and tough; the Flowers are of a white Colour, inclining to a Purple, not much unlike those of the Egyptian Thorn or Acacia, of a very fragrant Smell: The Seeds are yellow, contain'd in Cods that are of a blackish Colour, inclining to Red, being of a sweet Smell, a pungent and bitter Taste, pouring forth a yellow-colour'd Moisture like Honey. The Fruit of this Tree is call'd Opobalfam; and the Liquor issuing from it is call'd in the Shops, the Liquor of Opobalfam; and the Wood of the Tree Xylobalfam, or Balfam Wood, which is cephalick and stomachick; refifts Poison, and drives away any Contagion; it is prescrib'd in several pharmaceutical Dispensations, and may be us'd instead of yellow Sanders, or Wood of Aloes. The Carpobalfam, or Fruit thereof, is alexiterial, proper to strengthen the vital Parts. to excite the Semen Virile, to cure the biting of Serpents, and other venomous Creatures; but as it is scarce, Cubebs are us'd in its stead.

There flows in Summer time, from the There is a Tincture and Spirit of Balm of Trunk of this Balfam Tree, being cut, or Gilead; the Tincture is a great Secret in the the Boughs lopt off, a liquid Roha that is

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white and fragrant, call'd, in Latin, Opo- is call'd, the Balfam by Incision; that in the balfamum, Balfamelœon, Balfamum de Mecha, Balfamum verum Syriacum Balfamum Album Egyptiacum seu Judaicum. As this Balfam is scarce, dear and precious, it is apt to be mix'd and adulterated; it ought to be of a Confistence very near like that of Turpentine, of a whitish Colour, inclining to yellow, transparent, of a penetrating and pleafant Smell, the Taste a little bitter and acrid: it vields Abundance of Oil that is half exalted by the volatile acid Salt. If for Curiofity one make a Distillation of it, in the first Place we shall find an etherial Oil, then a yellow Oil, and at last a red Oil, fuch as is to be met with in Distillation of Turpentine: But as this white Balfam is a natural Drugg so exalted, that it stands in need of no Affistance from Chymistry, it is much better to use it in its natural State. To know if this Balfam is true and fresh, pour some Drops of it into a Glass of Water, and it will spread itself delicately upon the Surface, and afterwards be easily collected rogether by the End of a Stick entirely from the Water; but if this Balfam be old, tho' it be true, it gains a firmer Confiftence and Solidity, fo that it does not swim or float upon the Water, but will precipitate to the Bottom.

This white Ballam is the most effential Part of the Tree, and is the most valuable Medicine to fortifie the Heart and Brain; the Dose is from two Drops to five or fix; and it is likewise given inwardly to deterge and consolidate Wounds, strengthen the Nerves, and to heal Ulcers of the Lungs, Consumptions, Catarrhs and Phthisicks, so that there is scarce a better Thing in the World. The Ladies use it for a Wash, and mix it with a little Oil, and the four cold Seeds to soften the Roughness of the Skin; besides which, it takes away Pimples and Blotches in the Face: Some dissolve it in Spirit of Wine, or Hunga-77 Water, and so mix it with Snail-Water, or Bean-Flower Water, to make a Virgin's

Milk or Wash of.

48. Of Balfam of Peru.

ME fell at Paris three Sorts of Bullam of Peru; to wit, the White, which Ballam is of no other Ule, that I know,

Shell, whih is call'd the Dry Balfam, and the Black Ballam: The First is a white Liquor, altogether like that of which I shall treat in the Chapter of Turpentine, that distills from the Trunk and large Branches of certain Shrubs, whose Leaves are agreeable to those represented in the Figure of Balfam of Peru, which Tree grows plentifully in New-Spain, &c. The Second is the Balfam in the Shell, which drops from the Branches that are cut, at the Ends of which hangs little Flasks or Baskets, to receive a Kind of Milk that falls into 'em after the same Manner as the Vines yield a clear Water: When these Baskets are full, they place others in their Room, continuing so to do 'till the Trees will yield no more; then they expose, or set these Baskets in hot Places for some Days, that the Milk may congeal or harden. and change its Colour. The Third is the black Balfam, which is made by boiling the Bark, Branches and Leaves of these little Trees, in Water; and after they are boil'd some Time, by taking the whole from the Fire, and gathering off the Fat that swims at Top, which is of a blackish brown Colour, and is what we call black Balfam of

The First, which is that that distils from the Branches, is a hard Balsam; which to have its requisite Perfection, ought to be reddiff, the most fragrant and dry that may be: Its Use is for several Particulars, which may be of Service, as well in Medicine, as to make Virgins Milk, being more abundantly odoriferous than that which is made of Benjamin and Storax. Several Persons have asfur'd me, that the Balfam in the Shell was a Composition of Benjamin, Storax, and Balfam of Peru, which I never cou'd find to be true from several Tryals that I have made: But I will fay this, that there is a Balfam of Monfieur the Governor of Berne, which I shall communicate to the Publick, because of its many great Virtues.

After that the Branches will drop no more they cut the Trunk, and from thence flows a white Humour that is as clear as Milk, and is what we call the white Balfam; which, E sell at Pars three Sorts of to be right and true, ought to be white, and Balfams, by the Name of as like the Balm of Gilead as may be. This

out for Wounds, or to fell instead of the red, which some wou'd have to be what we rue Opobalfamum; tho' there is a vast Diference, in that the true white Balfam of net withal in the white Balsam of Peru.

Balfamum Peruvianum seu Indi-Lemery. cum, or Balsam of Peru, is a na-Dry Balsam, is a Sort of hard, reddish, fragrant Rosin, which is brought us in the Shell: produc'd as describ'd in Pomet.] The second is a liquid, white, smelling Rosin; nd the Third is a black odoriferous Balfam, which is the most common, and most in Use f all the others, as well in Physick as for erfumes; it ought to be viscous, and of a l'urpentine Consistence, of a blackish brown Colour, a sweet agreeable Taste, having ome Analogy to Storax. These Balsams are roper for the Brain and Stomach, to drive nalignant Humours off by Perspiration, o deterge and heal Wounds, to strengthen the Nerves, and to resolve cold Tumours; the Dole from a Drop to four or five.

9. The Manner of making artificial Balfam of Peru.

omet. | Ine Turpentine, Galipot, or white Frankincense, of each one Pound; Dil of Ben, Olibanum, Labdanum, Gum Emi, of each, fix Ounces; Lavender Flowers nd Nutmeg, of each, four Ounces; Spickard, Wood of Aloes, of each, two Ounach one Ounce and half: The little Valeor and Mastich, of each fix Drams; power all the Druggs grofly, then melt the urpentine, Frankincense, Gum Elemi, and bil of Ben over the Fire, and when they re diffolv'd incorporate the Powders; and then they are made into a Paste, put them to a Glass Retort, whereof one Part is upty; and after it is well luted and dry'd, gr. Of Balfam of Copyba, or Capivy. t it upon a Sand Furnace; and when the flatter begins to hear, there will flow a ear Water, then an Oil of the Colour of fold; at last a black Balsam, tending to

fell by the Name of Black Balfam of Peru: The Water is proper to be taken inwardly, Peru, has a Citron Smell, which is not to be by those who have the Falling Sickness, Convulsions, Weakness of the Stomach, and to correct Wind. The Oil is good for the Palfy, Nerves that are wounded, Pains in tural Balfam, whereof there are the Joynts, rubbing them with it hot : As to hree Sorts or Species: The First call'd the the Balfam, it has the same Virtues with that

> 50. The Balfam of the Governor of Berne. which was given me by Mr. Pimodan, the King's Lieutenant of Toul in Lorrain.

> TAke dry Balfam, one Ounce: Storax in Tears, two Ounces; Pomet. Benjamin, three Ounces; Aloes, Succotrine, Myrrh, Olibanum in Tears, Roots of Bohemia Angelica, Flowers of St. John's Wort, of each, half an Ounce; Spirit of Wine one Quart; beat altogether, and put them into a Bottle well stop'd, which hang in the Sun in the Dog-Days.

> The Virtues of this Balfam, according to the Original given me by the faid Mr. Pimodan.

First of all it is an admirable Balfam for the Cholick, taking four or five Drops of it in a Glass of Clarer: It is also sovereign in the Gour, apply'd to the Part affected, with a Feather or Cotton. For the Tooth-Ach it es; Myrrh, Aloes, and Dragon's Blood, of is wonderful apply'd to the Teeth with Cotton that has been steep'd in it: It cures all an, Orrice, long Birthwort, Acorus Verus, Sorts of Ulcers, Cancers and Chancres; cures dace, Benjamin, Storax, of each, one Ounce; the Biting of venomous Creatures and mad edoary, Galingal, Cloves, Cinamon, Ca- Dogs; is good to prevent the Marks of the small Pox, by rubbing the Pimples as they appear upon the Face; it is excellent for the Piles, Inflammations of the Eyes, Pains of the Stomach, and likewise to provoke the Terms taken five or fix Drops in hot White-Wine.

HE Balfam of Capivy is brought us two Ways, to wit, in a clear Oil, and a thick Oil; and this Difference arises only from the Difference of Time in which it flows from the Tree; for that which comes from the Incision that is made from the Tree, whose Figure is represented in the Plate herewith, is a clear Oil, that is white, and of a refinous Smell; and after that distils another Sort, that is of a golden Colour, and thicker, which gives it the Name of a Balfam: This is usually brought from Portugal in earthen Bottles, sharp and narrow at the End, in which is found a great deal of Moisture, which occasions it to separate, and makes this Balfam whitish like Curd. The Natives know not a better Remedy for all Sorts of Wounds than their Colocai, for so they call this Balsam; and the Brasilians Copaiba, the Portuguese Gamelo; in short, it is a very admirable Medicine, both internally and externally us'd, being a Specifick in the Gonorrhea, and Womens Whites. The Natives found out the Virtue of this Ballam by Means of certain Hogs in those Parts, who presently, when they were wounded, wou'd strike their Teeth against the Trunk of these Trees, from whence the Balsam wou'd flow out into their Wound; and this they wou'd continue to do 'till they were perfectly well; the Wood of the Tree serves 'em to dye Red with, as well as that of Brafil.

Balfamum Copahu, Copau, Copa-Lemery. Iyva, Copaif Campaif Gamelo, or Balsam of Capivy; it is a natural Ballam flowing from a Ballam Tree, about Surinam in the West-Indies, hot and bitterish to the Tafte, of an aromatick Smell, and clear transparent Body, like Venice Turpentine, but equal in Goodness and Virtue to most other natural Balsams: It comforts and warms a cold Stomach and Bowels, dissolves and enters into the whole Mass of Blood, depurates it from all its Feculencies, is an admirable Vulnerary, and a very good Thing against the Scurvy; opens Obstructions, and provokes Urine powerfully; it strengthens a weak Back, stops Fluxes of all Kinds; in a Word, provokes Swear, and cures most Diseases which are to be remedied by sweating, doing whatever any other natural Balsam or Turpentine will do: Dose from twenty Drops to forty, twice a Day.

52. Of Balfam of Tolu.

Balsam of Tolu is a Rosin that slows from the Trunks of several Trees, by Means of cutting them. These Trees are sound in great Quantities in a Province of New-Spain, which is betwixt Carthagena and Nomen Dei, call'd Tolu, The Inhabitants of those Parts tye at the Bottom of the Tree little Vessels made of black Wax, or else a Calabash to receive the Balsam; and when this Liquor falls, it hardens and becomes much about the Consistence and Colour of Flanders Glue newly made.

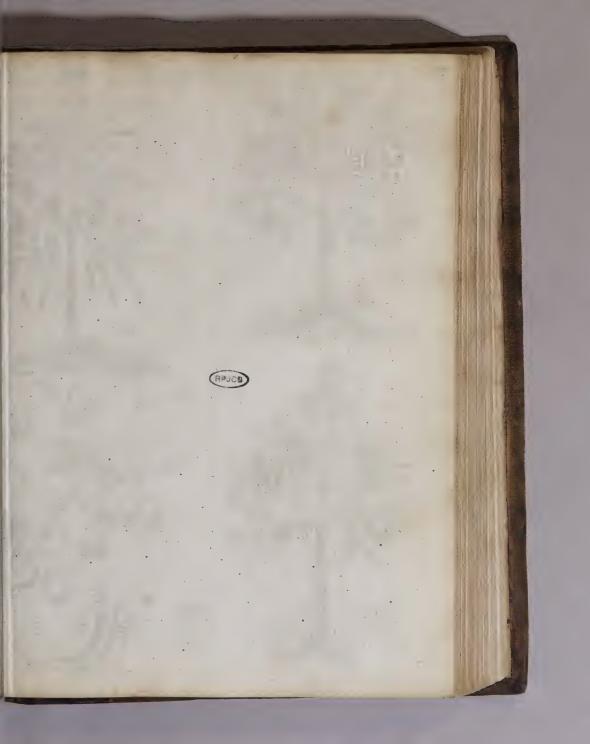
This Ballam is very scarce in France; but those who want it, procure it from England, where it is very common. Chuse that which is fresh, of a sweet penetrating Smell, like Balm of Gilead; for when it grows stale it is a dry Balsam: The same Virtues are assigned to this as to other Balsams, but more particularly for internal Uses; this not being in

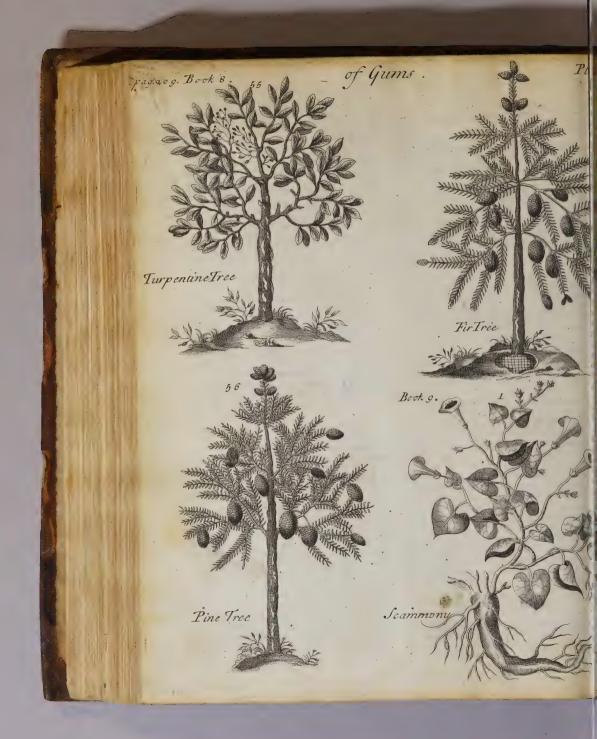
the least apt to vomit.

Balsamum de Tolu is a balsamick refinous Liquor, of a reddish Co- Lemery. lour, inclining to that of Gold, being of the Confiftence of Turpentine, very clammy, and sticking fast to any thing; when it grows old it grows dry and folid, and will break into Pieces almost like Aloes; it is of a very fragrant and pleasant Smell, reviving the Senses, much resembling the Smell of Lemons and Jessamine Flowers, but stronger, and not so faint and weak : It is more esteem'd than the Balfam of Peru, and reckon'd almost as good as the Balm of Gilead; it attenuates, dissolves, is pectoral and vulnerary: Outwardly it cures old Aches and Pains of the Head and Joynts; it stops Catarrhs, helps Defluxions, strengthens the Weakness of the Bowels, discusses Tumours, and cures Contractions: It is us'd in the Tincture, spirit and volatile Oil, as those of the Balm of Gilead, &c.

53. Of the New Balfam.

THE New Balfam, in Colour and Shape, is very like that of Tolu, but of a much less agreeable Smell.





This Balfam is made after the same Manner as the Oil of Bays, from little red Fruit that comes in Clusters, upon a Kind of Tree; the Leaves whereof are very large and broad, green above, and greenish underneath, that grows in the West-Indies, especially in the Island of St. Domingo: This Balfam is so very scarce in France, that there is very rarely any of it to be seen.

54. Of Liquid Amber.

Liquid Amber is a liquid Rosin, clear and reddish, which slows from the Trunk of very thick and large Trees; the Leaves whereof are like those of Ivy, and which grow plentifully in New-Spain, where they are call'd Ofocol. The Indians cut the Bark of these Trees, which is large, and very thick, and so they afford a Rosin, which when it is in any reasonable Quantity they fend into Spain, where it is fold by Bar-rel, as they do fine Turpentine; and sometimes it is very common in France, tho' at present it is scarce. Chuse that which is clear, of a good Smell, inclining to that of Ambergrise which gives it the Denomination, and of a pale Yellow; when it grows old it thickens, and is of a redder Colour: It is an exquisite Balsam for curing of Wounds, especially the Fistula in Ano.

We sell two Sorts of Liquid Amber; the one in clear Oil, which for its Consistence, is call'd, Oil of Liquid Amber; and the other in Oil of the Confistence of Turpentine, which from thence is call'd, Balfam of Liquid Amber; but the Difference is no other than according to the Time the one or the other falls from the Tree; for that which falls first, is always the clearest, and so ought to be prefer'd to the other; and as Liquid Amber is scarce, they make use of Oil of St. John's Wort in its Place, which is made with the Flowers put in Oil Olive, and set in the Sun during the Dog-Days. These Flowers give a fine beautiful red Colour to the Oil; some People add, very properly, fine Turpentine press'd in the Figure: As to the Fruit they and Saffron: The older this On is made, are of two Kinds; the one of the Size of the more Virtue it has in it. Besides this, our Nuts, and the Shape of Pistaches, they make another Oil of a blue Colour, and the other like the Juniper Berries. But with Camomil Flowers, after the same Man- as we have no Sort of Trade, either with ner as the former.

Liquid Amber is a natural Balsam, or a liquid Rosin, as that Limery. of Turpentine, clear, reddish, or

yellowith, of a pleasant Smell, almost like Ambergrise; it flows by Incision, from the Bark of a fine large Tree, that grows in New-Spain, which the Indians call Ococol, or Ocofolt; the Leaves resemble those of Ivy: the Bark is thick, of an ash Colour, and very odoriferous. They gather this liquid Rosin, and bring it to us in Barrels; but sometimes they leave it to dry in the Sun, where it hardens like common Rosin; this Consistence makes it easier to transport than the other, but the Smell is not fragrant, because the Heat of the Sun exhales some of the more volatile Parts. The Trees which produce the Liquid Amber, perfume with their fine Smell the Places where they grow. This Liquid Amber is an excellent Balsam, it mollifies and consolidates, is good against the Hardness of the Womb, Rheumatism, Sciatica, and the Weakness of the Nerves.

55. Of Turpentine.

TUrpentine is a clear, transparent, refinous Liquor, that flows from Pomet. the Incisions that are made on the Trunks of feveral Trees as we shall fee afterwards. We usually sell three Sorts of Turpentine; to wit, the Turpentine of Chio, the Turpentine from the Pine

Wood, and the Bourdeaux Turpentine: There are several others besides these to be met with in the Shops, which are nothing else but false Names given them, according to their Adulterations.

The first and the dearest of all the Turpentines, is that of Chio, which flows from the Trunk and large Branches of a Tree of a moderate Size, call'd the Turpentine Tree, which grows in the Isle of Chio, in Cyprus, Spain and France; these Trees bear green Leaves, with Flowers and Fruit, as exone or the other, I shall say nothing further

as treat of them. As for that which is the Turpentine of Chia, it ought to be of a solid Confistence, without any kind of Taste or Smell, of a white inclining to green, and the least subject to stick in the Teeth, or to the Fingers that is possible; and take care of the Pine Wood Turpentine, which some sell for the true Chio Turpentine; which is no great Difficulty to find out by its strong Smell, and because it sticks to the Teeth. This Turpentine is very little us'd in Phyfick, because of its Dearnels; but there are some curious honest Apothecaries who make use of

it upon most Occasions.

The second Turpentine is that we falsely sell for Venice Turpentine: This flows first of all without Incision, from Pines and Fir-Trees, during the great Heats; and this Turpentine, or rather natural Balfam, is call'd by the Lyonnoise Bijon; but the little we have brought us is not worth speaking of; for the Merchants of that Country know how to dispose of it to better Advantage, in that they fell it for true white Balfam of Peru, which is quite contrary to what Mr. de Furetier observes, who says that the Bijon is a Drugg the Apothecaries substitute in the Room of Turpentine, which is a great Error for many Reasons: First, because a Pound of Bijon is worth more than fix Pounds of Turpentine: Secondly, because there are very few Apothecaries or Druggists in Paris, that know what it is. And in the last Place, I believe, if we wanted ten Pounds of Bijon in Paris, we should be at a great deal of Trouble to get it, whereas we might meet with many thousand Pound Weight of Turpentine.

To return to our pretended Venice Turpentine, I say, when the poor People, who wait in the Fir Woods, see that the Trees will drop no more of their own accord, they cut them, from whence flows a clear Liquor like Water, of a yellowish White, and that as it grows older thickens, and becomes of a Citron Colour. When they make their Turpentine Harvest, which happens twice a Year; to wit, in Spring Time, and Autumn; they bring it to Lyons in Casks, or in Goat-Skins, to fell to the Merchants of whom we buy it: Therefore we may be satisfied, that what is call'd Venice Turpentine, is the fine

of them, but refer the Reader to such Books which is clear, and the whitest that can be got, and beware of what is counterfeited with Oil of Turpentine, which may be eafily known by its Colour, Smell, and Confiftence, and by steeping a Piece of Paper therein. and burning thereof; if there be any Addition of the faid Oil, it will yield a black stinking Flame: On the contrary, if it is natural, it affords a refinous Smell, and will not burn so swift. This Turpentine serves for many Uses, as well in Physick as for the Artificers, especially for making Varnish.

The Third is the common Turpentine, to which some give the Name of Bayone, or Bourdeaux Turpentine. This is white and thick as Honey, and comes most from Bourdeaux, Nants, or Rouen. This Turpentine flows not from the Trunks of Pines or Fir Trees, as most People believe; but is made from a white hard Rosin, which we call Galipot, and the Mountaineers Barras. As to the true Venice Cyprus, or Pisa Turpentines, we have none brought us; and what we do fell by the Name of Venice Turpentine is, as I have said before, of that of Lyons: For the Cyprus they substitute that of Chio; for the Pifa, the common Turpentine, made with the Oil of Turpentine, and a little Verdigrise to give it a greenish Cast, which is very improper for three Reasons: The First, because the true Turpentine of Pisa is of a yellowish White: The Second, because the Counterfeit is able to spoil other Druggs because of the Oil, which will not agree with all Sorts of Work. The Third, because it is greenish, which is contrary to Pisa Turpentine that is yellow.

I have been the more particular upon this Head, that fick People, and Workmen, as well as Apothecaries and Surgeons, may not be impos'd upon with artificial Turpentine for the natural, but that they may hereby know the genuine and the true from the falle and adulterate. As to the Strasburg Turpen tine it rarely comes amongst us, but is fre-

quently fold in Holland.

56. Of common Frankincense, or Rosin of the Pine Tree.

VE fell two Sorts of this; one Pomet. under the Name of Galipot. Pine or Fir Turpensine of Lyons: Chuse that or white Frankincense, and the other under

that of mix'd or marbled Frankincense; these shou'd be clear, and white as Water, of a Pine Tree; and when it flows in a fine Seafon, it is near and white; and fometimes it is marbled or speckled, which when it is so, and the Frankincense fine, the Hawkers sell it for Benjamin, tho' it is very different from it, in that the Benjamin is of a good Smell, and the spotted Frankincense stinks extreamly, and is of no other Use, that I know of, but to sell instead of Benjamin.

They dissolve the white Galipot, and when it is melted they put it into Barrels, or half Barrels, which contain from three hundred and fifty, to seven hundred Weight; and after sell it under the Name of the gross or common Turpentine, which ought to be clear, and as little Mixture in it as may be. As Turpentine is a Rofin which is more or less clear, there are Barrels of this Commodity to be met with, where there are somevimes fifty Pounds of this Turpentine as clear as Water, that swims at Top, which is frequently fold for Venice Turpentine, which may be known by its brown Colour.

The common Turpentine is much in use to make Ink for the Printers, and for the Farriers, and to make course Varnish, which they do by melting common Turpentine with Oil of forc'd to make in private, or bye Places, which is a true natural Ballam, as well for the Cure of Wounds as that of Chilblains: But as this white and red Oil is not much us'd, we do not deal in it; but instead thereof we drive a confiderable Trade in the Oil drawn by the Alembick from Galipot, as well as that that flows from the Tree. This Oil is made plentifully in the Forest of Cuges, about four Leagues from Marseilles, and in the Neighbourhood of Bourdeaux. This Oil is what we call Ætherial Oil, Spirit or Essence of Turpentine; that which renains in the Alembick, is what we call black

differ not but in Colour: The First, which strong penetrating Smell; yet this is a misis white, is a Rosin, that flows by Incisions, chievous Commodity, and great Chears in that are made in the Pines, from whence it it, besides the Risque of Fire, and the little takes the Name of the Gum, or Rosin, of the Profit there is got by it, which is the Reafon why fo many People will not deal in it. This Oil is also useful for several Sorts of People; as Painters, Farriers and others. It is likewise a true natural Balsam, and very proper for all Sorts of fresh Wounds. Several Persons have affur'd me, that Oil of Turpentine, which comes from Marseilles in white Iron Bottles, was made with aromatick Herbs, as Thyme, Rosemary, Lavender, and the like; and that this Oil was call'd Herb Oil, but I cou'd never have this confirm'd to me by several Letters that I have receiv'd from Marseilles; but on the contrary, every one has affur'd me that it was made with Galipot, or white Frankin-

They dissolve this Galipot with a little Oil and some common Turpentine, and make what we call fat Pitch, or white Burgundy Piech; because they pretend that the best and first of this is made at St. Nicholas in Lorrain, which is quite contrary at this Day; for the best of this Kind comes from Holland and Strasbourg; from whence it is brought. It is observable that this Commodity comes not but in private, or by flealth, being counterband Goods, I believe that Turpentine; but this is a Composition they are the Sort of Pitch which we make in France has more Smell, and is of a less Body, and for fear of Fire. They distil Turpentine in whiter than that of Strasbourg, because we great Alembicks, and there flows a Water put in more Oil and Turpentine, and the fifft; then a white Oil, then a red Oil, Dutch use nothing but the Galipot. The Use of this Pitch is for feveral Sorts of Work, and of some small account in Physick, because it is attractive; but it is a very troublesome Plaister, sticking close to the Skin, but may be taken off with warm Oil, or Beer and

They make, besides this, with Gali-pot boil'd to a Consistence, what we call Pirch Rosin; but that which we sell is made of Galipae gather'd at the Roots of Trees: In a Word, of that which is spoil'd, and having melted it, is thrown into Vessels, to form it into large Cakes of an hundred Weight and upwards, fuch as we now tee Oil of Turpentine, to promote its Sale, them in. The finest Rosin comes from Bayand make it serviceable upon all Occasions, onne and Bourdeaux, which ought to be dry

E e 2

fair, the least full of Water and Sand that Pines; for it is certain that all the Tar we

can be. The Arcancon, which we fallely call Colophony, or Rolin, is also of some little Use in Physick, but more abundantly for several Sorts of Works; this being hot, they throw into it a sufficient Quantity of Tar, in order to give it a black Colour, and then it becomes what we call black Pitch, of which we have two Sorts, which differ only according as they are hard or foft. The best black Pitch, as well as Rosin, is what we have from Norway and Sweden, but especially from Stockholm; we fometimes make black Pitch in France, but it is nothing fo fine as that of Stockholm. The Uses and Virtues of these are so well known, it wou'd be very trifling to infift upon them. There is drawn from black Pitch, by means of a Retort, a reddish Oil; which for its Excellence, is call'd Balsam, or Oil of Pitch: This is very good, and is pretended to be equal to the natural Balfams. They melt black Pitch, and afterwards dip a Wick of Flax, Hemp, or the like, in it, which we fell by the Name of Links, and is us'd sometimes to black Shoes withal.

There is another black Pitch, which the Ancients call'd Zopissa, and is properly what the Mariners call Pitch and Tar, and which ferves them to pitch their Vessels with. This Zopissa is a Composition of black Pitch, Rofin, Suet and Tar melted together; and this is what is fold for true Ship Pitch, and us'd as fuch by the Apothecaries in their Compo-

fitions where this is required.

57. Of Tar or Liquid Pitch.

His is a clear fat Liquor that flows from the Trunk of old Pines; when they would kill or destroy the Tree, the Swedes and Norwegians make an Incifien, and then cut the Bark round the Tree, The Bark of the Pines being cut instead of vielding a white Frankincense, or Galipot, they yield a black Liquor, which is the Tar; and presently, as soon as all that is fallen, the Trees dye, and are good for nothing but to burn.

This may help to undeceive several who believe as many Authors have vouch'd,

now fell is made as already mention'd, and not by Means of the Pines that are burnt. That which is found clear, is improperly call'd, Oil of Pitch. The Tar is much us'd by the Mariners, Farriers and Shepherds, to mark their Sheep, as well as to defend 'em from Diseases. Chuse such as is natural and clean; not fuch as is made with Oil and Pitch, but the true Stockholm Tar.

It is generally brought to us from Denmark, Norway, Finland and Swedeland; but there is much of it made in New-England, Virginia, Carolina, and other Parts of Florida: It is the Produce of all refinous Trees, first taken from the Cedar, and afterwards from the Larch Tree, Fir Tree, and Pitch Trees; but now chiefly from the Pine Trees: It cures all Sorts of Scabs, Itch, Tettars, Ringworms, and other Vices of the Skin. Tar is better than Pitch, because in boiling the Pitch loses the more subtle and fiery Parts, and therefore is proper for Coughs, Phthisicks, Hoarseness, and other Humours that fall upon the Lungs. Tar and Bees-Wax makes a Plaister that is discussive and anodine, good against the Gout, and all manner of old Aches and Pains: The Spirit is very diuretick, opens all Obstructions, and resists the Scurvy.

58. Of Colophony, or Rosin of Turpentine.

THE true Colophony is made of fine Turpentine boil'd in Water, Pomet. 'till it comes of the folid Confistence of Rosin, by which Means it is made portable: They ought to be undeceived who believe it to be, and call it brown Pitch, fince the true Colophony, is the Turpentine of the true Pine Wood, made hard by boiling. One may know when this Turpentine is boil'd enough, by taking it out of the Water, and feeing that it hardens and is brittle: This is what the Apothecaries heat and make into Pills, with Liquorish Powder for Clap Pills.

It is call'd Colophony, as pretended by some, from a Town in Jonia, call'd by that Name, from whence it first came, and in English Rosin. It is clear, yellow, or black, and that Tar is made by burning of the when dry brittle, and therefore will eafily

clear and fweet, and which being burnt fmells like Frankincense: Some is made in England from Turpentine distil'd; for after the Oil of Turpentine is drawn off, the Colophony or Rosin remains at Bottom; the less Oil you draw off, the whiter you have your Rosin, the more Oil, the blacker is the remaining Colophony.

It is emollient, glutinative and healing, given inwardly it strengthens a weak Body, eases Pain, heals Ulcers in the Reins, Bladder or Neck thereof; gives Relief in the Gout, fills Ulcers with Flesh, and skins a Sore: Given inwardly in Powder, from one Dram to two Drams, it cures the Running of the Reins in Men, and the Whites in Women, and takes away the Weakness and ill Temperament of the Womb.

59. Of Varnish.

The fell fix Sorts of Varnish; to wit, the dry Varnish, which is made of Oil of Spike, fine Turpentine and Sandarac melted together. The Second is white Varnisk, call'd Venetian Varnish, which is Oil of Turpentine, fine Turpentine, and Mastick melted together. The Third is Spirit Varnish, which is compos'd of Sandarac, white Karabe, Gum Elemi and Ma-stick. The Fourth is golden Varnish, which is of Linseed Oil, Sandarac, Aloes, Gamboge and Litharge of Gold. The Fifth is China Varnish, which is of Gum Lac, Colo-Wine. The Sixth is common Varnish, which is nothing else but common Turpentine disfolv'd in Oil of Turpentine, as observ'd, let Smell, and creates sometimes Pain in speaking of Turpentine before. There is the Head. another Varnish, some of the Religious make; in the feveral Sorts, whereby they underticular Ufe.

Terebinthina, or Turpentine, is a

beat to Powder, brought to us, for the most having the Consistence and Quality of na-Part, from France: Chuse that which is tural Balsams, which they draw by Incision, or without Incision, from several Sorts of Trees, that grow in the hot Countries, as Pine, Fir, &c. We use two Sorts of Turpentine in Physick; the first is call'd Chio Turpentine, because it is produced in the Isle of Chio; this is most esteem'd, and dearest, but it is scarce; it flows by the Incisions made on the Trunk and lage Branches of the Tree: Its Confistence is thick and pretty hard. Chuse the cleanest, most transparent, and of a whitish green Colour, having a little Smell, and being almost of an infipid

The fecond Sort is call'd clear Turpentine: it is abundantly more liquid or thin, finer or more fragrant than the former; it flows without cutting, and likewife with cutting, from the same Sort of Trees, but is brought us from Dauphiny, &c. That which flows without Incision, is by the Peasants of the Country call'd Bijon; it is a Sort of Ballam that is of a Consistence, Colour and Virtue. almost like that of white Balsam of Peru The Turpentine that flows by cutting, is that usually call'd Venice Turpentine, which tho' none of it comes from thence, but from other Parts of the Country, is the most commonly us'd in Medicine, being close, near, clear, fine, white and transparent; of the Confistence of a thick Syrup, of a strong and unpleasant Smell, and the Taste something bitter: All the Turpentines yield a great deal of Oil, and volatile, acid, or effential Salt; they are very aperitive, proper for the Stone, and for Colicks, Ulcers phony, Mastick in Tears, and Spirit of of the Kidney and Bladder, Retention of Urine and Gonorrhea; Dose from half a Dram to a Dram; it gives the Urine a Vio-

It is nam'd Terebinthina, or Turpentine, but as we do not deal in it, I shall not trou- because this Liquor slows from a Tree call'd ble my felf or the Reader about it. As to Terebinthus: That which flows from other the Use of Varnish, that is best known to Kinds of Trees, is call'd by the same Name the Workmen, whose Business it is to deal from their Resemblance. Terebinthus, vet Terebinthus Vulgaris, the common Turpenfland, which is the properest for their par- tine Tree, or Terebinthus angustiore folio vulgatior, or the more common Turpentine Tree with the narrow Leaf, is a Tree of a Lemery. liquid Rosin, or a viscous, gluey, resi- middle Size, as to its Height, cover'd with nous, oily, clear, transparent Liquor, an ash-colour'd Bark; the Leaves are oblong,

General History of DRUGGS.

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no Flowers; they are thick Shells, like Juty full of Turpentine, and no Incisions are of the Guts, and to provoke Urine, &c.

firm, always green, like the Bay, but much made, the Rosin of the Turpentine grows fmaller, rang'd several on a Side, which end thick, hardens, and produces Obstructions in a fingle Leaf: The Flowers are dispos'd that stop the Course of the Circulation of in purple Clusters, that are full of Stamina, the nutritious Juice, then the Tree falls inor Threads, that are charg'd on their Tops; to a Kind of Suffocation, for it swells and the Flowers leave no Sort of Fruit after burfts. To prevent this Accident, they make them, the Fruit rifing upon Stalks that bear Incisions, or Slashes, at the Bottom of the Trunk of the Tree, which is like Bleeding niper Berries, pretty hard, viscous, or resion in the Foot, by which they make the Turnous to the Touch, of a greenish blue Copentine flow, which before caus'd so great a lour, tinging the Hands, each of them Repletion. They likewise cut the Trunk inclosing an oblong Seed. This Tree is very and other large Branches of the Tree, which refinous, and the Wood hard, like that of has the same Effect as Bleeding in the Arm ; Lentisk; it bears like the Elm a Bladder, and under these they place earthen, or other or Bag, fill'd with a fat Liquor, where Veffels, to receive the Turpentine that flows. Flies engender; it grows in the Isle of Chio, This Tree affords a great deal of Oil and Cyprus, Spain, Languedoc, Dauphiny, and effential Salt; the Bark, Leaves and Fruit other warm Countries; and when it is pret- are aftringent, and proper to ftop the Griping

BOOK the Ninth.

Of 7 UICES.

stance, which makes up one Part of the Abuses. Composition of Plants, and which communicates it felf to all the other Parts to ferve for their Nutrition and Growth; and this Scammony is a thick Juice of the Juice is to Plants, just as Blood is to Animals. Juice is to Plants, just as Blood is to Animals. The Juice is further taken for a thick Liquor long Trees and Walls, whose Leaves liquid Electuaries, or solid Extracts, in such dearest Juice, and most us'd of any we plentifully in several Parts of the Levans,

HE Word Juice fignifies a liquid Sub- have, and in which are committed the greatest

r. Of Scammony.

which they draw from Vegetables, or the are green, and made in Form of a Heart; Parts of them, and, by the Means of the Sun after which come white Flowers, shap'd like or Fire, reduce into the Confistence of Bells. This Figure of the Flower is the Reason why some write that the Scammony a Condition, as to preserve or keep them Plant was a fifth Kind of Volubilis or Binds for a confiderable Time. I don't pretend to meed. Some will have it, that the Scammons speak of liquid Juices, but only such as are we now sell is the Juice thicken'd, by Affifit for Carriage, and which we trade in; I stance of the Fire, and drawn by Expression shall begin with Scammony, as being the from the Root of the said Plant, that grows

but especially about Aleppo and St. John macious Diseases; such as Gout, Scurvy, brought us; which when right, ought to be true Aleppo, light, grey, tender, brittle, refinous, and when crumbled between the Fingers will appear greyith, attended with a bitter Taste, and a faint unpleasant Smell. and reject such as is heavy, hard, and blackish.

As to those who purchase great Quantities, and wou'd buy pure Aleppo Scammony, let 'em take care that it be the same within as without; for I can affure them I have seen in this Scammony Pieces of Wood Coal, &c. put into the Middle, so that there has not been above the Thickness of one's Thumb of fine Scammony. I no longer doubt but the Levantines roul up in the Scammony they make, Charcoal, Stones, and other foreign Bodies, which we meet with either by Chance, or that were put there maliciously and defignedly, by those that work it up, and afterwards cover it with a Paste of fine Scammony, after the fame Manner as the fealing Wax Makers do, as mention'd in the Chap. of Gum Lac.

It is easie to judge by this Description, that Scammony is not made by the Sun, as several believe; besides, a Friend of mine, a Surgeon at Marfeilles, who dwelt a long Time at Aleppo, confirm'd me in this Opinion. They make from the Aleppo Scammomy, by the help of Spirit of Wine, according o Mr. Lemery's Prescription, a Rosin of Scammony, which has more Virtues than t; but as this is dear, and there is but little Consumption of it, I shall not trouble my felf to fay any thing more of it. Scamnony is with good Reason call'd one of the Pillars of Phylick; for it is one of the most amous Catharticks or Purgers in the World, Diagnidium, or Scammony prepared and cor- the Faculty of Montpellier, upon the Subject ected with the Juice of Quinces; 2dly, of Scammony. cammony sulphurated; 3dly, Scammony viriolated; 4thly, Extract of Diagrydium; thly, Extract of Scammony; and 6thly, Sy-

d'Acre, from whence the best Scammony is Dropfy, Cachexia, Rheumatism, Obstructions, Headachs, Apoplexies, Reliques of the Veneral Disease, &c. Scammony is not proper to give in Fevers, or to old and weak Persons, Children, or breeding Women, being sharp and biting, and apt to inflame, by reason of its acrid Quality. This gentle Preparation of Scammony may be given almost in any Case, or to any Constitution, being a Marmalade of Scammony. Take Scammony; and Turbith, of each four Ounces; extract them with Spirit of Wine, 'till they are almost dry; add this to fix Pounds of Marmalade of Quince, which hath not above one Pound and a half of Sugar in it.

2. Of Smyrna Scammony.

Elides the Aleppo Scammony, we fell, tho' very prepofterously; a Pomet. black, heavy, fostish Scammony, that is full of Stones, Shells, and other exotick Bodies; in a Word, the very Reverse of Aleppo Scammony; for which Reason it ought not to be meddled with, any more than the grey, light, brittle Sort, that is nothing else but a Composition of Rosin, with some other violent Purgatives, in order to promote the Sale of it. I think my felf oblig'd, in order to undeceive the Publick, to let them know that the great Cheats committed this Way, in sophisticating of Medicines or Druggs, are not done by the General Merchants, or the Wholesale Dealers, but the little Retail Traders, who impose their pernicious Commodities, upon honest well-meaning People, without Honour or Conscience; and to show the Malignity of some of these ill Druggs, I shall give you dmitting of various Preparations, as 1st, the Certificate of Mr. La Tour, Physician of

" It happened, as I was preparing half an " Ounce of a Drugg that was fold to me for up of Scammony, which is made with Sugar " Scammony, that after the Proportation was ad Spirit of Wine over a Fire; besides "done, the Syrup turn'd of a green Calour, which, we have the Cornachine Powder made " like the Juice of Herbs, which made the f Scammony, Cream of Tartar, and Anti- "think the Drugg was nought: Expenony diaphoretick. All the Preparations of "rience confirm'd me in this Opinion, for cammony are prevalent against old contu- " having given some to a little Deg. he Body swell'd up, and he remain'd fick five Poppies, by the Assistance of Incisions made " or fix Days without ever purging at all.

Sirn'd the 16. Sep. 1693. De la Tour, Physician at Montpellier.

Scammonium vel Scammonia, or Seammony is a concrete refinous Juice, or a greyish brown Gum that flows by Incision from the Root of the great exotick Bindweed, call'd Convolvulus Suitous and Scammonea Syriaca, according to Marifon and Tournefort, the Syrian Bindweed. This Plant bears feveral long Stalks, winding, creeping, and clinging to and about the adjacent Shrubs. The Leaves are large, pointed and triangular in the Shape of a Heart, smooth, of a fine green, hanging upon thort Stalks. The Flowers grow in the Junctures of the Leaves in Form of Bells, of a purple or whitish Colour, fair and pleafant to the Eye; when they are gone, a Fruit that is almost round and membranous fucceeds them, containing in its Cavities black corner'd Seeds; the Root is long and thick as one's Arm, of a greenish brown without, and white within, supply'd with Fibres, full of a white milky Juice, as all plentifully in several Parts of the Levant, the Fire, to give it a folid Confiftence.

The best is clear, like Gum or Rosin, thin, quickly diffolving, friable, or breaking eafily, not very heavy, of a grayish Black, turning white or milky by the Touch of the Tongue, and not much inflaming it. The thick heavy and very black, is either the Tuice of the whole Plant, or adulterated; if the latter, it is commonly done with the Tuice of Tithymal, which you may eafily know by its Heat, and its Mixture with other droffy Substances; it is strongly purgative, evacuates bilious, acrid, ferous, or melancholy Humours; the Dole from four

Grains to fixteen.

3. Of Opium.

Pium, which the Turks call Am-Malk, that flows from the Head of black affirm'd; I cannot believe that they have

thereon. This Liquor being drop'd from the Plant grows thick, and changes its white Colour into brown, as we see that of the true Opium, which is in fuch Use among the Turks, that they subsist by it for two or three Days, without taking any other Food or Nourishment; and when they go to fight they take it to excess, that it may animate them, or at least make them insensible of Danger.

There is yet another Sort of Opium that flows from the Head of the black Poppies, without any Incision, and which in falling coagulates and grows brown by the Heat of the Sun; and it is this thicken'd or concreted Juice, which is preferable to the other: Now the Word Opium is derived from the Greek Word Opon or Opion, that fignifies Juice. There is a third Sort made by Incision from the Heads of the white Poppies, this Juice thickening, as that of the Black, is call'd by the Turks Meflack. But as these three Sorts of Opium do not reach us, I shall proceed no further with them, but only describe that which is brought us; now that which we call and fell for Opium, the Plant is, and of a strong Smell; it grows is a blackish Mass which the Turks and the People of the Levant send us, and is a Juice but especially about Aleppo, in fat Land. made by Expression from the Heads and When the Juice is taken from the Root, Leaves of Poppies, and asterwards is reduc'd they thicken or inspissate it by the Heat of to the Consistence of an Extract, by the Help of Fire, and then form'd into Cakes of different Sizes, and to render it carriageable is wrapt up in Poppy Leaves, as we have it now brought to us.

There is another Opium, which the Turks make from the Juice of a Plant they call Glaucium, which is like the horn'd Poppy that they mix with the Juice of Poppies, and make a Mass of all together; and this is so true, that the Opium we now fell, is no other than the Juice made by Expression, and no: the Juice which flows naturally from the

Poppy Heads.

And as the Ancients made no doubt but that Opium was a thick Juice made by Expression, so they gave it the Name of Meconium. With all the Deligence I have beer capable to make use of, I have not found i possible to meet with white Opium, notwith phiam, is a Liquor white as flanding what some modern Authors have





ever seen any, since it is probable that the Landanum with Storax, as follows: Take therefore I think my self oblig'd to detect the Errors of others, and let the Publickknow the Truth of things, and that fuch Authors only write from the Relation of other Men.

As to the black, hard, yellow, or fost Opium, it is no Novelty to meet with any of them, because there is scarce a Cask or Barrel of Opium where there is not black, or yellow, or hard, or fost to be met withal; for every Body knows that the thicker and older any Juice is, the more it will dry and blacken: If it is yellow it is owing to its being boil'd and dry'd. And as to what they say that the White comes from Grand Cairo, and that the Turks keep it for themselves, I have inquired of People that have liv'd a long Time there; but they all have observ'd, that the Opium they saw at Grand Cairo, and which the Turks use is brown.

The Opinion of Mr. Furetiere ought to be rejected, when he fays that Opium is made by beating the Juice in a Mortar, and when it is thicken'd, forming it into Troches. Raw or crude Opium is not much us'd in Phyfick; but the Extract which is made by Water, or Spirit of Wine, as directed by Mr. Charas and Lemery, which is what the Apothecaries call Laudanum; there is another call'd Laudanum Opiatum, which is a Composition of Laudanum, Extract of Saffron. Magistery of Pearl and Coral, Oil of Cloves, Karabe, Musk and Ambergrise; the whole being compos'd into an Electuary; but as this is made in the Apothecaries Shops, the Druggist has no Trade with it. Some make an Extract about Paris, and other Places,

pothecary's Shop is furnish'd with. There are leveral famous Preparations besides, as Crollius's Extract, that of Opium with Henbane; Quercetan's Extract of Opium; Hareman's Laudanum, Paracelfus's specifick Anodine; Pills of Hound's-Tongue, Pills of Storax, Philonium Romanum; liquid Laudanum; that of Paracelsus,

from black and white Poppy Heads, which

they call simple Diacodium, to distinguish it from the Compound; besides which, there

is the Syrup of Diacodium, which every A-

Opium flows from the Head of white Poppies Opium dry'd on a hot Plate, two Ounces; like Milk, and must change its Colour Storax Calamita, Labdanum, of each one by being expos'd to the Air as it hardens; Ounce; Oil of Cloves, thirty two Drops; mix them in a hot Mortar, and make Pills as big as Peale, from three Grains to five. Opium is narcotick, hypnotick and anodine; it composes the Hurry of the Spirits, causes Rest and Insensibility, is comfortable and refreshing in great Warchings, and strong Pains; provokes Sweat powerfully; helps most Difeases of the Breast and Lungs; as Coughs, Colds, Catarrhs, and Hoarseness; prevents or allays Spitting of Blood, Vomiting, and all Lasks of the Bowels; is specifical in Colicks, Pleurifies and histerick Cases. Dose, from half a Grain to three or four.

The true Opium is a gummy
Tear that flows from the Head of Lemery. the Egyptian and Grecian Poppies;

but now we fell none of the true Sort, because the Turks keep it from us, and will not permit the Transportation of it, but send in its Stead the Meconium, which is a Juice made by Expression from the Heads and Leaves of the same Poppies, and reduc'd by Evaporation to the Confiftence of an Extract; they make it into Cakes in dif-ferent Sizes, and wrap it up in the Poppy Leaves to keep it moift, which we improperly call Opium; but has nothing of the fine Virtues of the true Kind, but is made answerable to it in some Degrees.

The best is heavy, compact, clean, vifcous, of a blackish brown, inclining to a red Colour, bitter, and a little acrid to the Taste: The most esteem'd is that of Thebes, that is brought from Aleppo and Smyrna in Turkey, wrap'd up in Leaves; the other from Persia and Surat in the East-Indies, being far inferior to the Theban, or Turkey Sort; not having fo ftrong a Smell, nor being any thing so clean. That which the Turks use they gather from the white Poppy gently cut; and they take it daily from half a Dram to a Dram, to enliven them. and raise their Spirits.

Authors make three Sorts of it; as First, The Pure from Cairo or Thebes: Secondly, The black and hard from Aden: Thirdly, The yellower and softer Sort from Cambaia and Docam in the East-Indies: But we generall, at of Helmone, Willis and Sydenham; Scroder's this Time, reckon but two Sorts, viz. tie.

Turkey or Theban, which is weighty, of a good Confistence, thick, and more folid than the Indian; of a lively, fresh, reddish Cooking the Indian is done without any Nosse, or at least to final, that it is difficult to discover; and it will burn and slame; soft, easie to con, and be dissolved either in Water, Wine, or Spirit of Wine, and is pretty clean from Dirt, Parisiens, Page the 8th, in the Article of Aloes, in these Words: Florise in Horto Re-Opium, which is softer, yellower, lighter, not of so good a Body, and much souler, being in every respect inserior to the formula fubitanea Floris eruptione, ut perperam multi sabulantur. It showerd in the Royal

It is proper to allay fermenting Humours, to excite or procure Sleep, to calm or appeafe Pain, to stop Looseness and Vomiting, to provoke Sweat; and is good in Inflammations of the Eyes, and Tooth-Ach; Dose from half a Grain to two Grains, Opium procures Rest, by its viscous and sulphureous Particles, which being convey'd into the Channels of the Brain, by the volatile Parts, agglutinates and fixes the Animal Spirits, in fuch a Manner, that it stops, for some Time, their Circulation, from the Swiftness of their former Motion; fo that during that Obstruction, or Tye upon the Spirits, Sleep ensues; for the Senses are, as it were, fetter'd or lock'd up by the viscous or agglutinating Property of the Opium.

4. Of Aloes.

Pener. Aloes is a Plant that is bigger, more or less, according to the Soil it meets with, which has given Occasion to some People to say, that it rises as high as some of our largest Trees; which is not altogether false; for there is found in Spain, epecially in the Mountains of Sirna Morna, Mores Plants of an excessive Height; the Leaves whereof are so thick, hard and sharp, that some of 'em will saw a Man assumed in the Middle of the Leaves rises a Stalk, according to the Figure describ'd, that contains a white Seed, extreamly light, and halse round.

I shall not imploy my Time to relate what a great many Authors have said concerning the Aloe's Plant, that it showers not of a hundred Years; and that when the Flowers blow they make a great Noise, which is al-

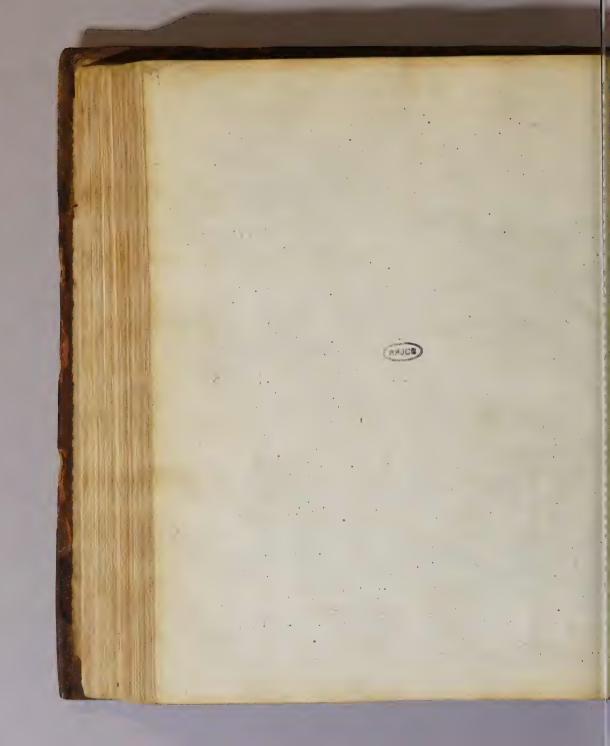
rogether falle, fince we have feen the Aloe's Plant blow several Times in the Royal Garden at Paris; and when the Flower opens it is done without any Noise, or at least so small, that it is difficult to discover; and it is easie for me to prove what I advance from that Phrase which is in the Hortus Regius Parisiensis, Page the 8th, in the Africa of Aloes, in these Words: Floruse in Hortus Regius Parisiensis, Page the 8th, in the Africa of Aloes, in these Words: Floruse in Hortus Regius Parisiensis, Page the 8th, in the Africa of Aloes, in these Words: Floruse in Hortus Regius Parisiensis, Page the 8th, in the Africa of Aloes, in these Words: Floruse in Hortus Regius Parisiensis surventus Luteria, idque nullo streptus mulla substance Floris eruptione, at perperant multi fabulantur. It flower'd in the Royal Garden, in the Years 1663 and 1664, which was never known before in Paris, and that without any Noise, or sudden Eruption, as several had imagin'd. But I shall only say, that Abundance of People were surprized that I should affirm that Aloes produced its Fruit in Clusters, as represented in the Cut, but what I advance answers to that given me by Mr. Tournefort, who gather'd the same upon a Plant in Spain. He had besides, in his Hands, about half an Ell of Lace four Fingers deep, and of a reddish Colour, which is made of a Silk that they draw from the Leaves of this Plant.

This Description of Aloes is entirely different from that made by Mr. Furetiere, who confounds the Tree of the Aloes Wood, with the Plant which produces the Aloes as I have observ'd in the Chapter of Aloes Wood. But at present we sell three Sorts of Aloes, according as they are finer or courser ; and likewise in Regard to the Places whence they come, and where they are made. The finest or purest is the Succorrine Aloes, because the Aloes is a concreted Juice which the Las tins call Succus Concretus, or because the best comes from the Island Succotora, or Soccotra, near Moco in the East-Indies. The Inhabitants of that Island draw this Juice from the Root of the Plant; and after i thas fettled, they pour it off by Inclination, into a Vessel capable to bear the Fire; and when it is reduc'd into an Extract, they put it in very fine Bladders for Conveniency of Carriage, and in that Condition it will keep a long Time, as we find.

Chuse the finest, clearest, smoothest Aloes, that when broken is transparent, and being powder'd yields a fine golden yellow Colour, that is of a bitter Taste, without Smell;

the





the smallest, thinnest, lightest Bladders are tion, by reason of its intense Bitterness; but efteem'd the best. The Succoorine Kind is faid to be fit for medicinal Use, without any other Preparation; but the following Extracts are much more gentle, and properer for all the Intentions of Physick : Diffolve the purest Aloes in Juice of Roles or Violets; then digeft, firain, and coagulate with a gentle Fire, to the Confistence of an Extract or Pill, which is call'd the Frankfort or Angelick Pill; the last of which Names is very incongruous, because the Angelick Pill is a Composition of several Ingredients mix'd together, of which Aloes is indeed the

70. Bauhinus delivers the Method of Colle-Ging the three Kinds of Aloes, diftinguish'd into Succotrine, Hepatick, and Caballine or Horse Aloes, after the following Manner. They take the Herb call'd Aloes, being first cut in Pieces; then bruifing, they press out the Juice of it, which they put up into a Veffel of a long and round Shape, letting it stand for the Space of twenty-five Days: In the mean while they take care to clear off the ufeless Scum, and throw it away; as also the upper Part of the Juice, until fuch Time as some Difference appears in its Colour and Confiftence. The purer Part of this Juice: being concreted, is call'd Succotrine Aloes; the remaining Part of it, being of a little darker Colour, is call'd Hepatick Aloes; and from the Dreggs, or Settlings of it, is made that Som of Aloes, call'd Caballine, or Horse Aloes.

At Paris, in the Beginning of the Spring, form according to the Relation of Fab. Columbus, they obtain a most pure Aloes, by cutting off the Leaves of the common Aloes, and hanging them up by a small Thread; and then putting a Dish or Platter under them, a yellowish and exceeding bitter Juice drops out of them into the Dish; which afterwards coagulates into a pure and clean Sort of Alees, which loofens the Belly, deftroys Worms, and subdues a preternatural Acid; it likewife removes Putrefaction, or prevents it, being given in Substance from half a Dram to two Scruples; it is also good in Ob-tructions of the Womb and the green Sicknels; and particularly prevalent in reftoring a dejected Apperite.

is often prescrib'd in Pills, being the Basis of all, or most of those purging Pills, to be met with in Authors and Dispensatories. In the City of Goa, as Garcias relates, they give Aloes well bruis'd, and mix'd with Milk, to those that are afflicted with Ulcers in the Kidneys or Bladder, and void purulent Urine, and by that Means they are cured in a little Time. You must forbear the giving Aloes, or any Medicines, containing Aloes to those that are subject to the bleeding Piles, and the overflowing of the Courses, as also to such as are subject to a Spitting or Vomiting of Blood, and to Women with Child, unless it be first corrected as hereafter taught: But on the other hand, it may be given properly and successfully enough to Persons subject to Melancholy, the Jaundice, and other Distempers, wherein the first Passages are tainted with vicious Crudi-

Aloes confifts of two Parts, or different Substances, whereof the one is saline, or a faltish Substance, the other sulphureous: The faltish Pare is disfolv'd by watery Menstruums, fuch as common Water, diftil'd Waters, and the Juices of Plants: The fulphureous Part is diffolv'd by Spirit of Wine, or any other inflammable Liquid. They commonly make use of the Juice of Roses, or Violets, to dissolve it in; but it is far better in fair Water; for by that Means the saline Part is wholly separated from the gross sulphureous Part, which is viscous and like a Jelly ; nay, it appears to be nothing else but the groffer Part of the Jelly of the Leaves mention'd before. This gross Substance adhering too closely to the Intestines, is apt to produce a fruitless Desire of going to Stool, commonly call'd a Tenesmus, and smerimes bloody Stools; for by its opening the Mouths of the Arteries, answering to the hemorrhoidal Veins the Blood is pour'd forth. Wherefore; its Extract prepar'd with Water is a great deal better than the crude Aloes, and more advantageous and proper than the Aloes Rofat,

Some prescribe Aloes toasted, by which Means it is deprived of its harsh Sulphur: This has been found by Experience to be very helpful in all Sorts of Fluxes of Blood. Aloes is seldom or never prescrib'd in Po- When Aloes is dissolv'd in the Juices or Do-

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coctions of Plants, it is call'd, the Insucca- mate; they are to be met with in Spain, and tion of Aloes, or Aloes insuccated: Wherefore, according to the different Intention of ceed from a Root that is long, large, very the Physician, it may be dissolv'd in the Juice of Afarabacca, Infusion of Sena, and the Tincture of Scammony or Jalap, that its purging Faculty may be augmented. By a Chymical Resolution, Aloes affords a large Quantity of Oil, but a very inconfiderable Quantity of urinous Spirit.

5. Of Hepatick Aloes.

MIthin these few Years last past, we have brought from the American Islands a thick Juice which the French make from the Root and Leaves of the West-India Aloes, as describ'd in the Cut of it, with its Flower and Fruit. This Aloes is brought us in Gourds or Calabashes of different Sizes and Weight; that is to say from two Pounds to a hundred, and more, which is very extraordinary; yet I have been fatisfied of the Truth of this, by those who have feen Gourds of this Aloes of a hundred and

two Pounds Weight.

Chuse such as is of a Liver Colour, from whence it takes the Name of Hepatick, from the Greek Word Hapar, which fignifies Liver. There are two Sorts of it, the Hepatick properly fo call'd, and the Caballine; the Hepatick is the finer Sort of the Two, and is given both to Men and Horses; it is of a lighter Liver Colour, fine and clear, and not very fetid in Smell. The Caballine is the courser Sort, black, hard to be broken, and often adulterated; this is Horse Aloes, and ought not to be given to Men: And the common Hepatick Aloes, fold in our Shops, is scarcely any thing else but the Caballine, of a strong setid Smell, and very course: Besides, this is the Barbadoes, or West-India Aloes, which is of a fetid Smell, but much finer, and is brought over in Gourds. Pots and Casks; that in Gourds is the best and finest; that in Pots indifferent, but not so good as the other; that in Casks is moift, and the worst of all.

Aloe vel Aloes, is the thick or concreted Juice of a Plant, call'd by the same Name, that grows of feveral Sizes, according to the Soil and Cli-

many other hot Counteries; the Leaves prothick, fleshy, firm, indented, sharp on the Edges, fat and full of Juice: There rifes from the Middle a large Stalk, which carries on its Top white Flowers deeply flath'd in, or divided into fix Parts, which are fucceeded by oblong, or as it were cylindrical Fruit, divided each lengthways into three Partitions full of flat Seeds: The Root is of the Shape of a Stake fix'd in the Ground; all the Plant is extreamly bitter, and grows in the Southern Climes; as Egypt, Arabia, Spain and America.

Some Naturalifts fav, that the Aloes plant flowers not but from one hundred Years to another; that when the Flower opens or blows, it makes a Report like a Gun, and that the Stalk rifes up all at once, and grows prodigiously in a little Time: But this is not confirm'd from the Royal Garden at Paris; but on the contrary the Aloes has been feen there to flower without any fuch Prodigy. The Aloes is divided into three Kinds, as before; the Succotrine, the Hepatick; and the Caballine; all the Kinds are purging, and the Body is made up of a watery Part, and a refinous, in the watery Part the purging Faculty refides; the Refinous is of no Use for this Purpose, but rather of ill Consequence, being that which induces Gripings; for this Reason it is always wash'd or cleans'd before it is us'd, and then it may be taken with Ease and Safety. This is to be observ'd, that Aloes is not to be given too often, nor in too great a Quantity, lest it fret the Stomach and Bowels; nor to such as are troubled with a Flux of the Womb or Belly, or fuch as have a Bloody Flux, or Women with Child; nor to such as are hectical, or have burning Fevers, or are of a hot and dry Habit of Body; or who are emaciated, lean, and wasted away; nor to Children of thin, lean, hot and dry Constitutions; especially in hot Weather, when the Air is in an extream dry Temperature.

6. Of Hypocistis.

THE Hypocistis is a thick Juice Pomet. made from a Kind of Sprig or Bud, tha arises from the Root of an Under-

the Hypocistis we sell. Mr. Charas, and after him Mr. Meuve, have well describ'd the which I thought sufficient to give you, as engrav'd from the Original.

Chuse Hypocistis that is boil'd to a good Consistence like Juice of Liquorish; that is to fay, firm, of a shining Black, the least burnt, the most astringent to the Taste that may be, and that which is true. I name the First, because the Hypocistis is an Extract that ening and binding Plaisters. is fold very cheap; as well because the Buds are very common in Provence, as by Reason they yield a great deal of Juice: The Second is, because the Extract of the Root of Goat's-beard fells for more than the true Hypocistis: And the Third is, because Mr. Charas, from whom Mr. Meuve pretends to

This Juice is cold and dry, therefore it thickens and binds strongly, and is us'd chiefly to stop all Fluxes of the Belly, Womb, and Stomach; it stops Vomiting and Spitting of Blood, from Bruiles: Acacia is often us'd instead of it, but is not so effectual and good. This Juice is depurated by dissolving it in Water or Wine, and inspissating; it is made up into Rolls or Troches to stop Spitting of Blood, and Fluxes, Catarrhs, Sc. The Tincture checks a Gonorrhea, and the Whites; heals a Corrosion of the Bowels, occasion'd by the Sharpness of Humours. A Lohoch made of it, with Wine and Honey, is chiefly us'd against Ulcers in the Lungs, Stomach, and Bowels.

copy, makes no Mention at all of it.

Hypocistis is a Kind of Oroban-Lemery. che, or a Sort of Sprig or Shoot, that grows in Spring Time, upon the Foot or Root of the Cistus, which is very common in hot Countries; as Provence, Languedoc, &c. and bears Leaves that are almost round, hairy, rough, whitish; and the Flowers purple. The Shoot grows about half a Foot high, of an Inch or two's Thickness, and tometimes more, being round, for the True is of a brownish or dark Red,

farub, call'd Ciffus, very common in Pro- and much larger at Top than at the Bottom; vence and Languedoc, from whence we bring brittle, and of a yellow Colour, full of Juice, having certain Rings or Knots from one Place to the other, like Water Lilly Shape and Colour of this young Shoot, as Root. They cut this little Plant towards well as the Shrub that bears it; the Figure of May, when they bruife and draw from it, by Expression, an acid Juice, which they evaporate over the Fire, to the Consistence of an Extract, that is bard and black as Juice of Liquorice, but in Shape of little Cakes, for the Convenience of Carriage. This is call'd, according to the Plant, Hypocistis, which ought to be fresh, heavy, black, withtrue Hypocifis, because Mr. Meuve says out the Smell of Burning, of an acrid aftrinthat the Apothecaries, who wou'd deceive gent Taste; it contains a great deal of athe World, generally use the Juice of the cid effential Salt, intimately mix'd with Root of Goats-beard dry'd in the Sun; but Earth and Oil. It is proper to stop Looseness I can never believe this for three Reasons; and Vomiting, and to put into any strength-

7. Of the true Acacia.

THE true Acacia is a thickned Juice, according to feveral Au- Pomet, thors, that comes from the Fruit of certain Trees, that bear the Gum Arabick, whose Figure is represented in the 6th Chapter of Gums, Page 179; but as I am nor certain in that, I shall content my self to aifert, that what we fell for true Acacia is a thick Juice, reduced to a solid Consistence, which is brought us from the Levant, in round Balls of different Sizes, wrap'd up in very thin Bladders, as well to hinder it from running, as to make it convenient for Carriage.

Chuse that which is boil'd to a good Body, of a dun Colour; that is to fay, of such a brown as is inclinable to red; first, because such a Colour is a Sign that it is well boil'd; and in the next Place it is a Token that the Fruit was full ripe: The Juice ought to be fmooth, shining, of an astringent Taste, something unpleasant: It is very little us'd, and therefore not much bought up by the Druggist or Apothecary, who, it it is call'd for, generally ules the German Acacia, which is made of the Juice of Sloes, boil'd to. the Confistence of a solid Extract, then put in Bladders, as the Egyptian Sort, which is is like in the Form, but not in the Colour;

as the finest Juice of Liquorice: See a further Account of this from Lemery of the Acacia, Chap. 17. B. 7. Page 132.

8. Of Roucou er Rocce.

Pomet. THE Roucou, which the Indians call Achietl or Urucu : the Dutch, Orleane, and we Roucou; is a Meal or Flower which the Inhabitants of the Leeward Islands, and St. Domingo, make from a little red Grain or Seed, which is found in a Husk or Shell, whose Figure is here represented, mark'd A, which was engrav'd after the Original, which I have in my Hands.

The Shrub which bears the Roucou, produces according to Father Du Tartre, from the Root several Shoots that grow into Shrubs, and divide themselves into several little Branches: The Leaves are very like those of Lilac, and bear twice a Year several Clusters of Flowers, that are white mix'd with red, and in shape like those of black Hellebore: The Flowers are full of a vaft many little Stamina or yellow Threads tipt with red; at the Fall of the Flowers come dark-colour'd Buttons all hair'd, or briftled with fine little brown Points, which do not prick at all: When they are ripe there is in the Middle two double Seeds or Kernels. entirely furrounded with a Kind of Vermilion, or liquid red Dye, which the Natives call Roucou; 'tis with this they paint themselves when they travel abroad; but before they use it, it is mix'd with certain Oils which they draw from fome Seeds,

The Europeans do it with Linfeed Oil: they beat it in a Mortar with this Oil, and after they have reduc'd it to a Mass, they fend it into France, &c. where they use it to colour Wax yellow, when it is too pale, and likewise to give a Colour to Chocolate. There are those likewise who beat it in a Mortar without Oil, and make it into a Mass, or into Cakes; which being dissolv'd in Urine makes a red Tincture, which stains as well as the best Dye in Europe, and is a very good

Commodity.

This Account of Roucou is quite different from that of the Sicur Francis Rouffeau, who wrote we Word it was a Tree of mouldy, Sc. fo that in a Word, it is unfit

as aforefaid; and the German Acacia black eight or nine Foot high, whose Leaves were like those of the Peach Tree, after which came Husks or Shells, much like the Chefnut Shell, furnish'd with little Prickles throughout, within it is a little red Seed, which they bruise in a Mortar, or on a Stone, and that they put into a Vessel of Water. In short the Roucou is made in those Islands, after the same Manner as we make Search, not according as Mr. Meuve has describ'd, but just as our Starch-Makers work; and after it is made into Cakes, and dry'd, in is brought hither.

> This last Relation of the Sieur Rousseau is much juster than the First; foralmuch as the Cods or Husks I have, exactly agree with his Description: Besides, it is easie to see by the Roucou which we fell, especially when it is good, that it was never fleep'd in Oil, in that the good Smell of the true Roucou makes it diftinguishable from any Mixture. Again, we ought to undeceive those who believe that the Achiotl is made as the Sieur Blegny describes it, when he says, that it is the thicken'd Juice which is drawn from the Fruit of the Achietl, which is a Fruit Tree of America .: That this Fruit is a red Seed or Grain, which is found in great Plenty, in large round Husks or Shells: That when they take this Seed from the Husks, they stamp or beat it in a Mortar, and then press out the Juice: which they fer afterwards in a hot Place to evaporate the Moisture; and when it grows thick almost like Paste; they work it into several Forms or Shapes, which being throughly dry, are properly what is call'd Achioth: For on the contrary, it is certain that the Roucou is made like Starch, and that it is impossible to draw a Juice from it, fince the Matter out of which it is made, is a reddish downy Substance, which is found stick. ing to the Seed that is in the Husks, which they cannot separate without Water, in the same Manner as our Starch-Makers separate the Meal from the Bran to make Starch of and not any Juice express'd, or drawn from the Grain, as that Author wou'd have.

Chuse such Roucou as is of an Orrice ov Violet Smell, the dryest and highest colour'd you can get. Roucou, of this Kind, is that which ought to be call'd Achietl; for the chief Part of that we fell is moift, foul,





to be given inwardly, mix'd in Chocolato, or others, too common to require a Descipotherwise; it is much us'd by the Dyers; they also colour Wax with it. There was brought formerly from these Islands, and also from Holland, a Roucou in little Cakes of the Shape of a Crown-piece, which was endow'd with a great many Excellencies, and very good for internal Uses, which is quite contrary to what we have brought at this Time, which is in great square Cakes, like Marseilles Soap, or in round Balls; and which is sometimes so base and stinking, that it is almost impossible to bear it.

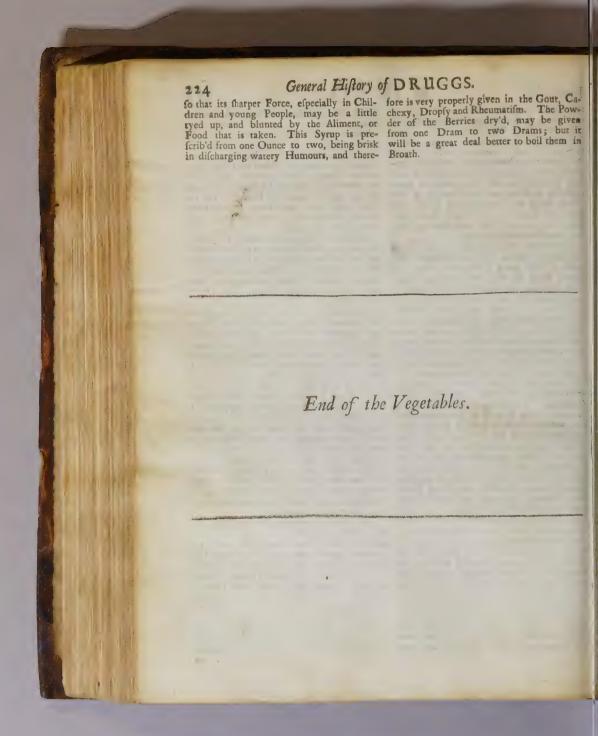
that bear the Roucou with great Industry, because of the many Uses they make of them: Such as, First, to adorn and furnish their Gardens, and from thence to cover or thatch their Houses: Secondly, Being a hard dry Wood, it serves for Fewel: Thirdly, The Bark ferves them for Cordage, and to make Linnen: Fourthly, They put the Leaves and Root into their Sauces, to give 'em a Relish, and to tinge 'em of a Saffron Colour. Fiftbly, From the Seed they make the Roucou, as well to paint their Bodies when work'd in Oil, especially on great Days of Rejoycing, as to exchange for other Commodities with Advantage. This gives me an Opportunity to speak of an Extract of Buckthorn Berries, which is made by pressing our the Juice, and mixing it with White-Wine, and a little Alum; and then extracting the Salt with Spirit of Vinegar, and abstracting all to a due Confistency; the Use is as a fine Green for Painters in Miniature. There are excellent Extracts made likewise from black Hellebore, Pæony, Tithymal, and wild Cucumbers, whereof Elaterium is made. The Syrup made from these Buckthorn Berries, call'd Syrupus Rhamni Catharticus, or de Spina Cervina, is an extraordinary Hydrogogue, or Purge for watery Humours, and one of the best strong Purges that is, and therefore good in the King's Evil, Rheumatism and Dropsies. This Syrup ought to be made of ripe Berries, if they be not ripe, and yellow, they are not so

tion.

Roucou, call'd by the Indians, Achiell, or Ureson, is a dry Paste Lemery. made from a little red Seed, which is found in a longish Husk or Cod, that has the Shape of the Mirobalans, but prickly, almost like those of Chesnuts. Authors are not agreed about this Kind of Tree or Shrub that bears this Fruit; some saying that the Leaves are like those of Lilac, and others, Peach Leaves.

To prepare Roucou, they bruile or pound The favage Americans cultivate the Shrubs the red Seed, then they dilute it with Water, and pass it thro' Strainers, to separate the Bran or groffer Parts; afterwards they dry this into a Sort of Flower or Starch. Chuse the dryest, of a Violet Colour. The Dyers use it chiefly, tho' it is sometimes made use of in Chocolate; if it be pure it strengthens the Stomach, Rops Loolnels, helps Digeftion, promotes Respiration, and provokes to Urine. The Rhamnus Catharticus, or purging Thorn, [spoke of by Pomet] is a Shrub that grows sometimes of the Height of a Tree, whose Trunk is of a moderate Size, cover'd with a Bark like the Cherry Tree, whose Wood is yellow; the Branches furnish'd with some Thorns that are sharp, like the wild Pear Tree: The Leaves pretty broad and green, much less than those of the Apple Tree, furrounded on their Edges with very fine small Teeth : The Flowers are little, and of a Grass green, succeeded with foft Berries, as big as the Juniper; green at first, but that grow blackish as they ripen, thining, and full of a dark-colour'd Juice, tending to green, that is bitter, and has within some Seeds joyn'd together.

This Shrub grows in Hedges, Woods, and other unimprov'd Places; the Fruit is gather'd when ripe, about the midst of Autumn, and is much in Use amongst the Painters, Dyers, &c. it yields Abundance of essential Salt, Oil, and Flegm, besides an acid Liquor, but a very full Portion gather'd about the End of September, or Begin- of Earth. From these Berries being press'd ning of October, and then it will be green; but a purging Syrup is commonly prepar'd in the Shops, with some of the warm Aproper to purge withal. There are some romaticks, which purges pretty briskly, folid extracted Juices besides, that are made and gripes in its Working; and therefore portable as the Juice of Liquorice, and some ought to be given a little before Victuals,



A Compleat

HISTORY OF DRUGGS.

Written in French by Monsieur POMET, Chief Druggist to the present French KING; to which is added what is further observable on the same Subject,

FROM

Mess. LEMERY, and TOURNEFORT,
Divided into Three Classes.

Vegetable, Animal and Mineral;

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And several other A R T S:

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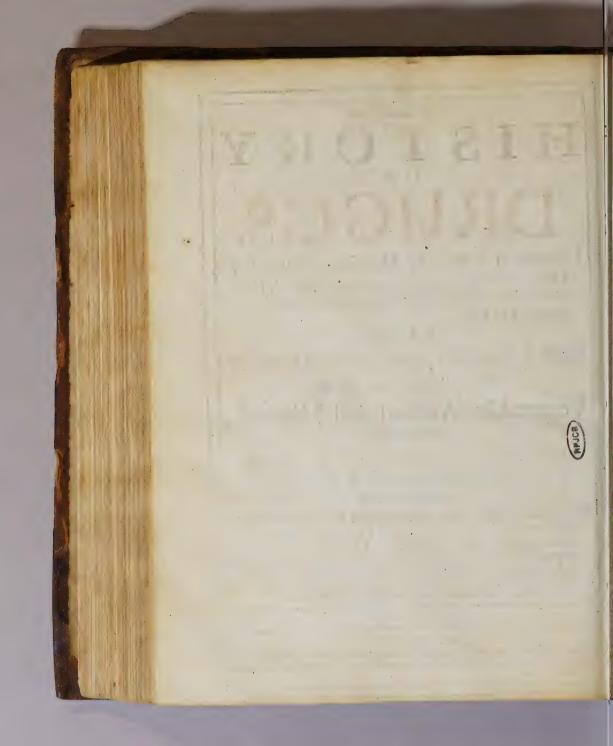
With above Four Hundred Copper Cutts curiously done from the Life; and an Explanation of their different Names, Places of Growth, and Countries from whence they are brought; the Way to know the True from the False, their Virtues, &c. A Work of very great Use and Curiosity.

Done into English from the ORIGINALS.

VOL. II.

LONDON:

Printed for R. Bonwicke, William Freeman, Timothy Goodwin, Matthew Wotton, John Walthoe, S. Manship, John Nicholson, Benjamin Tooke, Rich. Parker, and Ralph Smith. 1712.



An Account of the

NAMES of the AUTHORS

Quoted in this-

WORK.

ACOSTA, (Christopher) an African Physician and Surgeon, who made a Treatise of Druggs and Medicines in the Year 1582, which was translated into Latin, then into French, and printed at Lyons in Octavo.

Adversariorum Opus, done by Peter Pena and Matthew Lobel, both Physicians. This Book was printed at London, 1570, at Antwerp, 1576,

and reprinted at London, 1605, in Folio.

Agricola, (George) of the Rife and Causes of subterraneous Productions: Book the Fifth of the Nature of those Things which spring from the Earth. Book the Fourth of the Nature of Fossils. Book the Tenth of old and new Metals. Book the Second, Bermannus, or a Dialogue of Metallick Affairs, being a German Interpretation of Metallick Terms.

Aldinus; an exact Description of several scarce Plants, contain'd in the

Farnesian Garden at Rome: Printed there, 1625, in Folio.

Aldrovandi, (Ulyssis) Dendrologia, printed at Bononia in Folio.

Alpinus, see Prosper Alpinus.

Amatus Lusitanus, upon the five Books of Dioscorides; to which is added the Names of Plants in several Languages; printed at Strasburgh, 1554, in Quarto.

Ambrosimu: Hyacinthus his Phytologia of the publick Garden at Bononia, or the first Tome of the first Part of Plants; printed at Bononia, 1666,

in Folio.

An Account of the Names of the Authors

Anguillara, (Alosius) third President of the Garden at Padua, his Opinion of several Plants; a small Work divided into sourteen Parts: with the Works of John Marinel in Itahan; to which is added two Figures, one of the Chamaleon Thissle, and the other of Tree-House Leek; printed at Venice, 1691, in Octavo.

Apuleius Platonicus of the Virtues of Herbs, joyn'd with a Demonstration of the Herbs to every single Sign of the Zodiack, and also of the Erratick Stars, or such as are not six'd; printed at Paris, 1528, in

Polio.

Barbarus, (Hermolaus) his five Books of Additions upon Dioscorides;

printed at Cologn, 1530, in Folio.

Bellonius: These Works are translated by Clusius, and placed in the second Volume of Plants, printed at Antwerp. There are besides printed at Paris several Treatises of the same Belon of coniferous and ever-green Plants, in Quarto: Of the wonderful Excellency of the Works of the Ancients, in Quarto: Of Embalming the Dead, in Quarto.

Benzonis, (Hieronymus) his History of the new World, render'd into Latin by Urbanus Calvatones; printed at Geneva, 1600, in Octavo.

Boccones, (Paul) his Figures and Descriptions of choice Plants; printed 1674.

Boetius de Boot of Bruges, Physician to the Emperor Rodolph the Se-

cond, his History of Gems and Stones; printed at Leyden.

Bontius, (James) a Physician of Batavia, who writ six Books of the Natural History of the East-Indies, but being prevented by Death left them unfinish'd: Afterwards William Piso reduced them into Order, illustrated and published them together with the Natural History of the West-Indies; printed at Amsterdam, 1658, in Folio.

Botanicum Monspeliense, the Montpellier Botanist; printed ot Leyden,

1676, in Octavo.

Breynius, (James) of Exoticks, &c.

Brunfelsius, (Otho) his Latin History of Simples, with Cuts, in three Volumes; the First publish'd 1530, another in 1531, and a Posthumous Work in 1536; printed at Strasburgh.

Caspar Baubinus's Pinax, or Store-House of Botanical Rarities; printed at Basil in 1623, and re-printed at the same Place, with some Altera-

tions, in 1671, in Quarto.

Cafalpinus, (Andreas) Aretinus, Professor in the University of Pifa, his fixteen Books of Plants; printed at Florence, 1583.

Quoted in this WORK.

Camerarius upon the Epitome of Matthiolus; printed at Frankfort, 1586, in Quarto.

Camerarius on the Medical and Philosophical Garden; publish'd at

Frankfort, 1588, in Quarto.

Cardanus, (Hieronymus) of the Variety of Things; seventeen Books printed at Basil, 1581, in Ostavo.

Caftor Durantes's New Herbal; printed at Rome, 1585, and at Venice,

1684, in Folio.

Clustus, (Charles) his Appendix of the History of Plants, or his Description of several Roots as yet unknown; printed at Antwerp, 1611, in Folio.

Chifius of Exotick Plants, ten Books printed at Antwerp, 1605, in

olio.

Chusius's History of scarce Plants; printed at Antwerp, 1601, in Folio.

Clusius's History of several rare Plants observ'd throughout Spain.

Chusius's History of several scarce Roots observ'd throughout Pannonia, Austria, &c.

Columna, (Fabij) Phytobasanos, with Cuts; printed at Naples 1592.

Two Parts of the same Author of the less known Plants; the first of which contains 161 Figures; printed at Rome, 1616; the other 44 Figures, printed at the same Place, 1616.

Cordus, (Valerius) his Annotations on Dioscarides.

The History of Roots by the same Author, in sour Books, with several Cuts from Tragus, and some new ones added by Gesner.

A Sylva of Observations which were likewise publish'd together by

Tefner at Strasburgh, 1561, in Folio.

A Dispensatory of the same Author.

Cornutus, (James) a Parisan Doctor, his History of the Plants of Canala, and others not known before; printed at Paris, 1635, in Quarto.

Cornarus, (Janus) who undertook Dioscorides, and added Cuts to every

Iead; printed at Bafil, in 1557, in Folio.

Cortufus, (James) Anthony, a Senator of Padua, and President of the hysick Garden there, but who publish'd nothing but a Catalogue of the adua Garden, with the Area or Plans of the same; printed at Venice, 591, in Octavo.

Costeus, (John) concerning the whole Nature of Plants, in two Books;

rinted, 1578, in Quarto.

An Account of the Names of the Authors

Annotations of the same Author upon the Musaum, with the Works

thereof; printed at Venice, 1570, in Folio.

Crescentius, (Peter) of Bononia, of the Parts of Agriculture, with the Nature and Usefulness of Plants; printed at Basil, 1548, with some Cuts. Dalechamp's History of Plants in two Volumes; printed at Lyons in

Folio.

De la Duquerie, (John Baptist) his Lexicon Medico-Etymologicum.

Dioscorides of the Materia Medica, five Books in Greek, of which there are various Editions extant in Greek and Latin, with the Interpretation of Marcellus Virgilius, Goupislius Ansfulanus, Johannes Ruellius; Fohannes Cornarius, Fohannes Antonius Sarracenus, and others.

Six Books of the faid Dioscorides, with Ruellius's Notes and small Cuts, 350; to each Chapter of which is added compendiary Annotations of the fecond Edition: Also thirty Figures of Roots not before delineated; by

James Dalechamp; printed at Lyons, 1552, in Octavo.

Dodonaus, (Rembertus) of Mechlin, Imperial Physician, his History of Roots in thirty Books; printed at Antwerp; 1616, in Folio.

Dodonaus's French History of the same, by Chisins.

The Belgick History, by the same Author.

Euricius Cordus's Botanologicum, or Discourse of Botany, by Way of Dialogue; printed at Cologn, 1534, in Folio.

The Garden of Eystettensis, describ'd by Basilius Beslerus; printed at

Norimberg, 1613, in Folio.

Fracastorius's Works; printed at Lyons, 1590, in Octavo.

Fragofus, (John) Physician and Surgeon to the King of Spain, his His story of Aromaticks, Fruits and Simples that are brought from both the Indies into Europe; publish'd by Ifrael Spachius, a Physician of Strasburgh, and printed at the same Place, 1610, in Octavo.

Fuchfius's Commentaries on the History of Roots; printed at Bafu,

1542, in Folio.

Galenus, (Claudius) of Pergamus, the most eminent after Hippocrates. Garzias ab Horto, Physician to the Vice-Roy of the Indies, his History of Aromaticks and Simples that have their Growth in India, digested into an Alphabetical Order, and found writ in the Portuguese Language, by the Way of Dialogue, but contracted by Clusius, and render'd into Latin: This Book was translated into French under the Title of the Hiffory of Druggs, Spices, and fimple Medicines.

Gerard, (John) his History of Plants in English; printed at London,

1597, in Folio.

Gerard'i

Quoted in this WORK.

Gerard's History enlarg'd by Johnson; printed at London, 1636.

Gesner, (Conradus) of the Gardens of Germany.

Gesner of the Collection of Roots.

Gesner's Catalogue of Plants in four Languages.

Gesner of the Nature of Fossils, Stones and Gems, with Figures, &c.

printed at Zurich, 1565, in Octavo.

Guilandinus, (Melchior) fourth President or Governor of the Garden at Padua, his Apology against Matthiolus; printed at Padua, 1558, in Quarto.

Account of both the Indies; printed at Amsterdam, 1658, in Folio.

Hariot, (Thomas) his Description of Virginia; Chusius turn'd it into Latin, and this is the first Part of the West-Indies.

Hermannus: See H. L. B.

Hermander, (Francis) his History of Plants, Animals, &c. of Mexica, first compil'd by this Author, and afterwards digested into a Volume by Nardo Antonio Reccho; printed at Rome, 1651, in Folia.

Hermolaus Barbarus, his five Books of Commentaries on Hippocrates; printed at Cologn, 1530, in Folio; and the same Author's Corrections of

Pliny's Natural History; printed at Bafil, 1534, in Folio.

Hieronymus, or ferome of Brunswick, his plain German Proof; to which is added Brunselsius's Herbal; printed at Strasburgh, 1531, in Folio.

Hippocrates's Works.

Honorius Bellus Vincentinus, a Physician of Crete, his Epistles of

Plants, writ to Chisius, to which is added the History.

Hortus Medicus Edinburgensis, the Physick Garden at Edinburgh, or a Catalogue of Plants there, by Jacob Sutherland of Edinburgh, 1683, in Octavo.

Hermannus's Catalogue of Plants of the Garden at Leyden, by Paul Hermannus Professor of Physick and Botany in that University; printed there, 1687.

Hortus Malabaricus Indicus.

Hortus Regius Blesensis; printed at Paris, 1655.

Hortus Regius Parisiensis, the Royal Garden at Paris, 1665.

Johannes Bauhinus's Hiftory of Plants, carried on by Henricus Charlerus, Doctor of Bafil, and enlarg'd by Chabraus of Geneva, 1650, in Folio.

Imperatus Ferrantes, a Neapolitan Apothecary, publish'd a Natural History in twenty-eight Books with Figures of Stones, Corals, Spunges,

20°C

An Account of the Names of the Authors

&c. and of Plants and Fruits, thirty-three; printed at Naples, 1599, and Venice, 1672, in Folio.

Ten Parts of the History of the West-Indies, with an Addition to the

ninth Part, in Folio.

Ten Parts of the East-Indies, in Folio.

Johnston's Natural History of Animals with Copper-Cuts; printed at Amsterdam, 1657, in Folio.

Lacuna, (Andrew) his Commentaries on Dioscorides, with Figures; writ

in Spanish, and printed at Salamanca, 1552, in Folio.

Lennius, (Levinus) of facred Plants; printed at Lyons, 1595, in Octavo. Lerius, (Johannes) writ the History of Brafil first in French, then in

Latin; printed at Geneva, 1594.

Linscotus, (John Hugh) his Itinerary and Voyage into the East-Indies, belonging to the Portuguese; with the Annotations of Bernardus Paludanus; printed at the Hague, 1599, in Folio.

Lobellius, (Matthew) his Figures of Plants and Roots; printed at Ant-

werp, 1581, in a long Form, in Quarto.

His Illustrations of Roots, together with the further Care and Diligence of William How an Englishman; printed at London, 1655, in Qua to.

Lobellius's Observations and History of Plants and Roots; printed at

Antwerp, 1576, in Folio.

Lonicerus, (Adam) this was the Herbal of Eucharius, writ in High Dutch, and afterwards publish'd under the Name of Adam Lonicerus, with 833 Cuts about the Year 1582, at Frankfort.

Ludovicus Romanus his Voyage into the East: Seven Books with the Notes of Archangelus Madriguanus and others, who have describ'd the

New World.

A general History of the Plants of Lyons, by Gulielmus Rovillius,

The rough of the form a same of the party of the same of the same

1586, it is usually call'd Dalechamp's History in French.

Malpighius, (Marcellus) his Anatomy of Plants; printed at London, in Fol.

Marcgravius, (George) his eight Books of the Natural History of Brafil;
this Work was printed in Holland with that of Piso's, in the Year 1648, in

Matthiolas his Commentaries on fix Books of Dioscorides, &c. print-

ed at Venice, 1565.

Matthiolus quoted by Lobellius in the Book entitled Icones Lobellii.

Matthiolus on the Venice Edition, 1565.

Mentrelius, chief Physician to the Elector of Brandenburgh, his Universal Index of the Names of all the Plants in several Languages; with a

Quoted in this WORK.

small one of the scarcest Plants, and some Figures cut in Copper; printed

at Berlin, 1682, in Folio.

Mesue's Works of the Choice of cathartick or purging Medicines, with the Correction and Use of the two Books, whereof the First are the general Canons, and the Second treats of Simples; printed at Venice, 1623, in Folio.

Monard, (Nicholas) a Physician of Seville, his History of simple Medicines brought from America; writ first in Spanish, then done into Latin by Chusius, and afterwards translated into French by Antony Colin, Apothecary at Lyons: This Work was printed with that of Garzias ab Horto and Acosta, in the Year 1619, in Octavo.

Morifon's Universal History of Plants; the second Part by Robert Mo-

rifon Botanick Professor at Oxford; printed there, 1680, in Folio.

The Hortus Regius Blefensis enlarg'd by Robert Morison; printed at London, 1669, in Octavo.

Morison's Botanick Preludes.

Morison's New Description, or ranging of umbelliferous Plants; printed at Oxford, 1672, in Folio.

Nehemiah Grew's New Anatomy of Plants; printed at London, in

Folio.

Nicander's Treacle and Alexipharmacks, with the Greek Readings, or Scholia of an uncertain Author; printed at Venice, 1523, in Quarto.

An Edition of the same Author with the Greek and Latin Readings of

Gorraus; printed at Paris, 1557, in Quarto.

Oviedus Consalvus Ferdinandus his General History of the West-Indies:

This Work has been turn'd into French by Mr. Duret, in Ostavo.

Paludanus Bernardus's Notes on the Indian History of Linscotius, with

Paul Herman's Prodromus of the Batavian Paradife; printed at Amster-

dam, in Octavo.

Parkinson's Terrestrial Paradise, in which is contain'd a History of all Flowers, Fruit-Trees, &c. that are cultivated in Gardens or Orchards; printed at London, 1629, in Folio.

Parkinson's Theatrum Botanicum; printed at London, 1640, in Folio.

Petrus Pena: See Adversariorum Opus.

Paulus Renealmus Blesensis his Specimen of the History of Plants, with Copper Cuts; printed at Paris, 1611, in Quarto.

Philip Pigafetta"s History of the Kingdom of Congo, &c.

Vol. II.

An Account of the Names of the Authors

Pilleterius, (Caspar) of the Plants growing in Zeland, in an Alphabetical Manner; printed at Middleburgh, 1610, in Octavo.

Piso: See Gulielmus Piso.

Pliny's History, in which several Things are extant concerning the Culture and Virtue of Plants. This Work was translated into French, by Mr. Dupinet, and printed at Lyons, 1581, in Folio.

Pitton Tournefort's Elements of Botany, or the Method of knowing

Plants; printed at Paris at the King's Charge, 1694, Octavo.

Leonard Plukenett's Phytographia; the first Part printed at London, 1691, in Folio.

Father Plumier's Description of American Plants; printed at Paris,

1693, in Folio.

Pona, (John) Apothecary at Verona, his Catalogue of Simples growing in Montebaldo, with the Description of several others, and sixteen Figures, adding Chifius's History of rare Plants. This Work, after feveral Editions, was translated into Italian by Francis Pona, Dr. of Physick, and the Author's Son; printed at Venice, 1617, in Quarto, at Bafil, 1608, and at Antwerp, in Folio.

Prosper Alpinus of Egyptian Plants; printed at Venice, 1633, in

Quarto.

Prosper Alpinus's two Books of Exotick Plants; printed at Venice,

1656, in Quarto.

Johannes Baptista Porta, a Neapolitan; twelve Books printed at Frankfort, 1592, in Quarto: This Author writ feveral other Works, especially the Physiognomy, or History of several Plants adorn'd with Figures, in Octavo.

Quadramius, a Divine and Botanist to the Duke of Ferrara, writ a Treatise of Treacle and Mithridate; printed at Ferrara, 1597, in

Quarto.

Ray's Catalogue of English Plants, and the Isles adjacent; printed at London, 1677, in Octavo.

Ray's Hiftory of Plants; printed at London, 1686, in Folio.

Ray's Methodical Synopsis of British Roots by the same Author, John Ray Fellow of the Royal Society; printed at London, 1690, in Octavo. Rauwolfius, (Leonard) his Description of several Plants in his Travels

into the East-Indies, and their Cutts; printed, 1583, in Quarto.

Renodaus, (John) his five Books of Pharmaceutical Institutions; to which are added Three of the Materia Medica; printed at Paris, 1608, in Quarto ...

Robini

Quoted in this WORK.

Robini Hortus, or the Garden of John Robin's Royal Botanist to Henry the Fourth of France, with 214 Figures; printed at Paris, 1608, in Folio.

Rondeletius of Fish; printed at Lyons, 1554.

Ruellius's Translation of of three Books of Dioscorides into Latin, con-

cerning the Nature of Roots; printed at Basil, 1537, in Folio.

Scaliger, (Julius Casar) his Animadversions upon six Books of Theophra-slus, of the Causes of Plants; printed at Geneva, 1566, in Folio and Octavo.

Schola Botanica, printed at Amsterdam, 1689, in Twelves.

Schroder's Phamacopeia Medico Chymica, whereof there are feveral Impressions.

Schwenckfeldius's Catalogue of the Roots and Fossils of Silesia; printed

at Leipsick, 1601, in Quarto.

Suvertii Florilegium, in which, besides the many Figures, there are 47 Plants from both the Indies not describ'd before; printed at Frankfort, 1612, in Folio.

Sylvatici, (Matthai) Opus Pande Etarum; printed at Venice, 1499, in

Folio.

Tabernamontanus his German History, publish'd in three Parts, with 2087 Figures; printed at Frankfort, 1588, in Folio.

The fame enlarg'd with the Description of Plants, Cutts, and several

Medicines, by Caspar Baubinus, in the Year 1613, in Folio.

The Figures, or Prints of the same, with the bare Names in Latin

and High Dutch; printed at Frankfort, 1590.

Thalius, Silva Hercynia, or a Catalogue of Plants, growing naturally on the Mountains and Parts adjacent to Hercynia; printed at Frankfort, 1588. This Catalogue is usually joyn'd to and adorn'd with the Medicinal Garden of Camerarius.

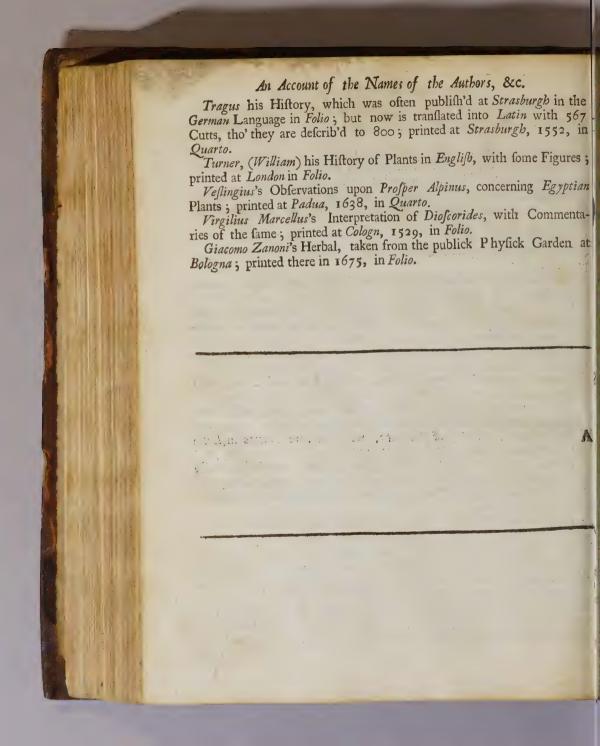
Theophrastus's History of Plants; the Greek Edition printed at Venice, 1552, in Octavo; at Basil, 1541, in Quarto; and Gaza's Version at

Lyons, 1552, in Octavo, with Jordan's Correction.

Theophrastus Eresus's ten Books of the History of Plants which Bo-

dans illustrated; printed at Amsterdam, 1644, in Folio.

Thevet's Cosmography in French, publish'd with several Figures of Plants and Animals. The same Author has writ in French, a History of what is singularly remarkable in New France in America; whereunto is added twelve Figures of Plants; printed at Paris, 1557, in Quarto.



A

CATALOGUE

OFTHE

SEEDS

OF

Several scarce and curious Plants lately brought from the American Islands; communicated to Monsieur Lemery's Bookseller, and publish'd with Lemery's Consent, by Joseph Donatus of Surian, a Physician of Marseilles, a Lover of Botany, and also Professor in America, being sent thither by the French King to promote Botanick Knowledge.

ACOUOUA, the first Sort being another Kind of Boxthorn, with feather'd or wing'd Branches, bearing Fruit of a red Blush, a round Flower, yellow and scented.

Acououa, the fecond Indian Kind; a wing'd Bramble first codded, with an Acacia-Leaf, and a white sweet Flower.

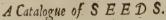
Abrus of Alpinus, Piso's scarlet Berry, which Baubinus has delineated

with a black Spot.

Are-Kepa, with the Sharpness of Pellitory, and the Likeness of it.

Anouagou the first Sort, a Sea Pulse, purple, spik'd with a Stone Fruit not eateable, of a brown Colour, streak'd with white Spots.

Anou-



Anouagou the second Sort, a Sea Pulse or Pea, without purple Spikes, and with a less stony Fruit.

Anouagou, the third Sort, a flony Sea Pulse with a white spik'd Flower,

and narrower Leaves.

Anouagou the fourth Sort, with fquare, black, long Cods, and a white Flower.

Acacia, the first crown'd Sort, with flat, blackish, purple Pods; the

Flower of a golden scarlet Colour.

Another crown'd Acacia, with narrower Leaves, podded, and that grows in the Woods, with a fweet Flower.

Anacocco, a Kind of Indian Tree that bears an Apple, with a golden

Fruit that is eatable, call'd a Bastard Mammon.

Acantha and Acacia of India, a fætid Pod, with a long and norrower Leaf, and a fweet, golden, round Flower.

Alanahi, a milky Tree that bears a Prune, from which the Indians

make the best Wine.

Acouaa, and the Amoroa of India, a Fruit bearing a thorny Ofer, with broad Pods, and a round, golden, fweet Flower.

Aftragallus, the purple colour'd, with the longest Root, and a hairy

Seed.

Abucia, the beautiful firaight Sort of Alpinus, with narrower Leaves,

lefs fweet and purple Flower.

Aipi Indian, a Fruit bearing milky Runner, that produces a Sort of

scented Aloes, and is of the Size of a Cucumber.

Acaiu, a Tree bearing an Apple, with a very delightful red Fruit, and a Nut hanging down instead of a Anacardium.

Affourou, a Royal, Aromatick, Indian Tree, commonly call'd Indian

Wood.

Bipicaa, a Fruit of Angola, with a trefoil Leaf, a yellow Flower, and excellent for eating.

Bamia of Alpinus, a hairy Mallow, with a yellow Flower and Nut-

meg-Seed, as Baubinus has delineated.

Boucomibi, with a Periwinkle Fruit, Pods like Sword's Point, with a golden-colour'd Bell Flower, which the Indians call Guaya, or Cancros.

Bamatu with five Leaves, a Tree that is crooked, with a Pear Leaf,

and a purple Bell Flower.

Balati, a low venemous Herb in the Woods, with a pyramidal Grape Fruit, of wonderful Virtues.

Cay-

A Catalogue of S E E D S.

Cayouti, the first Sort a sensible Bramble and chast Thorn, with short Pods, with a sweet, snowy, round Flower, call'd Chast Herb.

Cayouti, another Sort, bearing a chaft Fruit, and arm'd with terrible

Thorns, having a round golden Flower without Smell.

Cariarou the Third, a Sea Bindweed, with large fleshy Leaves and a purple Flower.

Caachira, the Herb Annil, from which Indigo, or a Paste is made,

with which they dye Wool and other Things.

Cariarou, a fecond Sort, a rib'd Bindweed, variegated with a golden Flower.

Couyarali, with a flaxen Leaf, and white Flower.

Caatia, with the Germander Leaf, that is often us'd by the Poor for Li-

quorice.

Coucouli, a high Tree, bearing a fweet Fruit, and an Apple that is nembranous, refembling a Myrobalan Nut, from whence is drawn a Cathartick, or Purging Oil.

Another Kind of Courirou, or fine Bindweed, with a fleshy Ivy-Ber-

y Flower, a red Fruit, and a spotted Seed.

Caoucia, a Sort of Snake-Weed, with a Pellitory Leaf, that grows in he Woods and Fields, and is very fuccessful in curing the Biting of bnakes and other venemous Creatures, for which Use it yields Precedence on other Antidote.

Ceratia, a thorny three-leav'd, and Pod-bearing Tree, with a fearlet

Leaf; Clusius calls the Coral-Tree.

Crithmum, bearing the Berry of the Palm of St. Christophers, with Leaves of the Thickness of the largest Purslane, and a little white Tower without Smell.

Cururuape, a Fruit bearing three-leav'd venemous Coralloide, or Shrub lant, of the Periwinkle Kind, a famous Creeper, whose Leaves the In-

ians use for venereal Wounds.

Cocao, a Mexican Filbert, or Nut, from which the fam'd Chocolate

made.

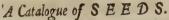
Cacontiba, an American Spurge Laurel, a Caustick Tree, with a white nelling Cluster of Seeds, that are a powerful Hydragogue, or the Indian nidium,

Cariarou, the first Kind, a rib'd Bindweed, with a golden Cluster,

id the Seed of a Polyanthos.

The third Kind of Cariarou is a Sea Bindweed, with a white fiveet lower.

The



The fourth Kind of Cariarou is a Sea Bindweed with a bloody Flower

and jagged Leaves!

Caratha, an American Herb, with longer Leaves than Aloes; a Da-Eliloides with a white acid Fruit, of which is drawn a fine tough Thread.

Calaba, an Indian Daphnoide Tree, or Sort of Periwinkle, with a Fruit like a Gall-Nut, from which the Indians draw an Oil, and anoint

therewith.

Camara the Sixth, a Kind of Fruit bearing Penny-Royal Herb, with purple Flowers knit together.

Caravicou, a finall Kind of the Ricinus, or Pine-Nut, with a little

Seed, an American purging Fruit.

Dolicum, a whitish stony Cotton, or Flaxweed, with short Husks, or

Cods, with the finall black Berry of Pifo, not eatable. Datura, a shruby, or stalky Strychnis, or Nightshade, with a round

prickly Apple, and a great purple Flower.

Eleimou, Indian and odorous, a hairy Nephritick Herb of wonderful Virtues.

Evonimus, a winding Shrub, bearing a Quadruple Berry, in Form

of an Apple.

Emouioubay, a very finall creeping Mallow that is white, with a golden red Flower, with shining Bladders of Silver, the most excellent Uterine Herb.

Erecoulibanna, a purple Cress, Dittander, or Piperitis, gently prickly, with a caustick Root, the Smell whereof will stupishe Serpents.

An Indian reedy Grass, broad leav'd, with Branches, and very wind-

ing, with a purple Tail, and Stone-crop-Seed.

Guayacum, an Indian Tree with rounder Leaves than the Box, and a purple Flower, commonly call'd Holy Wood.

Jamabeu, the famous Ricinus, with Palm-Leaves jag'd deeply or in-

dented; Baubinus delineates it the Purging Hazel, or Filbert.

Inimboy, a thorny winding Fruit with stony Kernels; Clusius calls it Lobus Spinosus, the Prickly Lobe.

Ichicouliba, that refembles an Ash, with a golden horned Fruit and

Flowers almost like Pimpernel, the Root whereof is diuretick.

Jaboureitica, an Indian thorny Tree, with Leaves that smell very near resembling those of Rue, with very small purple Flowers, call'd, in French, Wood of Pian.

A Catalogue of SEEDS.

Jynaon, an Indian purging Buckthorn, with a pointed fleshy Leaf, and an odorous red Flower.

Kebecati, a little maritime Tree, with a Fruit very like the Citron

Myrobalan, a Specifick in the Bloody Flux.

Kacouacou Bona, an Indian Mallow Tree shining with a Silver colour'd Leaf.

Larani, with the white Flower; the great American Ricinus, the Black: Baubinus, in his Pinax, calls 'em Pignones de los Infiernos, or the Devil's purging Nuts.

Latyrus, the narrow leav'd, with a large blue Flower, the most beau-

tiful Bindweed.

Lithospermum Gramineum, Grass Stone-Crop, with the broad reedy Leaf, and a particular purplish black Tail.

Mynty, a Dysenterick Tree, with the Pear-Leaf and Olive Fruit, which

the Blacks use among their Eatables.

Macenilla, a venemous and milky Tree, with a fweet Fruit like an Apple, which the Indians poison their Arrows with.

Monbanitobon, the fecond Sort, a Kind of Eupatorium, that bears gol-

den Clusters on its Stalks.

Manalou, a yellow Bindweed that looks like a Briony, with a sharp Leaf, and a red Olive-like Fruit.

Mantiakeira, a hairy scorching Pulse, with a broad tresoil Leaf, a

golden crown'd Flower, commonly call'd a Grating Pea.

Merucuya the Golden, in Form of an Apple, adorn'd with a large purple Flower, with a spreading Leaf deeply indented.

Meern, the First of Brasil, an Indian broad-leav'd Cane.

Matallon, another lagenarious Tree, with a lefter Four-square hollow'd Fruit, like a Tobacco-Box.

Another Mantiakeirâ, being a hairy Pulse, with a woolly Pod, and a

coronated purple Flower.

Meeru, or another Indian Cane with narrow Leaves, and a yellow Flower.

Mebipi, a black American Pea, with a white Tuft on the Top, call'd, the Pea of Good Life.

Mandubi, an American four-leav'd Plant, with a yellow Flower.

Moussambey, an Oleran Herb of the Indies, an erect horny Cinquesoil, with a fine leavy Stem, and blackish purple Flower.

The third Montochiba, a fenny Violet-colour'd Almond-Tree, the Pe-

letuvier Violet. Vol. II.

C

Nous

A Catalogue of SEEDS.

Noulourbue, another Soapwort, being a Tree that bears a Grape or Berry, which the Indians use for Soap.

Nhaloubonou, a maritime Tree, with a red Myrobalan Fruit, and a

Leaf broader and more fleshy than the Pistachia.

Ovacobiba, an unknown Sort of Almond Fruit; the Tree of which bears thirty-four Kinds of Gums, with Chefnut-Leaves.

Oulabouli, the first Kind, a Fruit bearing a Creeper, with golden

Flowers that fly away in Down.

The fecond Oulaboali, or Indian Golden Rod, with a fweet purple

Berry.

Onaiboubon, a hoary Fruit bearing Celandine, with the Leaves of Bears-foot, or Black Hellebore, and the Flower refembling the Cotton, with a whitish Sky Colour, whose yellow Juice purges like the Pine-Nuts of Monardus,

Ouroni, a white Apple, call'd Acaiu, of an excellent Tafte.

· Ovacobika, the third Sort, with an unknown Almond Fruit, and Walnut Leaves; the Tree bears thirty-five fragrant Gums in the highest Woods.

Oucoulibue, a high Indian Tree, with a fweet, woody, or dry membranous Apple, near to the Cathartick Myrobalan Nut, with a red

Ovaraoua, an Indian Tree, like the Frangula of Matthiolus; the De-Flower.

coctions of whose Leaves and Bark purges downwards.

Ovacobiba, another Kind of the unknown Almond; being a lofty American Pistachia Tree, with woolly Leaves.

Ouloucouya, the first Sort, an Indian Scabious, with a sharp tuberous Root, very beautiful, something like the Sow Thistle, with a sweet red

Pifum, the finall Bladder Nut, with black Fruit, and a white, as Bau-Flower.

binus has delineated it; the Pifum Cordatum of Lobelius.

Papaver, the white prickly Poppy, with the Hellebore Leaf, whose yellow or golden Juice purges dropfical Bodies.

Palmites, the fourth Sort fair and branching in the Woods, with a long

Tail, very fweet and grateful.

Quya, and the round Indian Pepper less biting. Qui Gumbo, the branching Mallow, with the Willow-Leaf and

Pine-Fruit, fit for eating. Quya, the third Sort, a fmall, oblong, biting, Indian Pepper, with broader Leaves. Rhagu

A Catalogue of S E E D S.

Rhaoy, the Wood Tormentil Tree, that looks like a Phyllirea, with an Acorn Kind of Fruit, whose Root dies well, and is commonly call'd Baard Isabella Wood.

Ricinus, the less spreading American one, the Coralloides, with a Palm

Leat.

Another Riboulichi, a whitish Indian Bay, appearing with a Poplar eaf.

The large Ricinus, and Kerva of the Arabs, bearing Fruit in America,

with the broadest Palm-Leaves.

Rhamnus Antinome, the fecond Berry-bearer; the Bark receiving a incture in cancerous Wounds.

Another Riboulichi, a sharp American Bay, unknown, with a foft broad

leaf and Perforate.

Savariaba, a thorny Tree like a Sloe, containing a black purging Pitch. r Marrow.

Sesamum and Sensem, an Oleran Herb, or Indian Corn or Grain, from hence is drawn a famous Oil amongst the Indians.

Sair of the Indians, a Hemp-like branching Sorrel, or four Dock,

own'd with a purple Fruit, or Guiny Sorrel.

Solanum Mexicanum, the Mexican Nightshade, with the red variegated lower, or the Mirabilis Peruviana of Clusius, which the poor People se for Falap.

Tibouecatou, a deadly American Nightshade, with a prickly Leaf, and

Gold-colour'd Fruit, like a Pear.

Titoulibue, a finall milky Tree, with a Citron Leaf, a joynted Fruit, nd a white fweet Flower: 'Tis an excellent Febrifuge.

Touton, a woolly Indian Tree, with a large-belly'd Fruit arising out of

ie Trunk.

Tuboa, another woolly Tree that bears a less Fruit, which the Indians ake use of instead of the other.

Toulicbiti, a small, intoxicating, blackish Berry, that grows in the

Toods, with a whitish, rough, jagged Leaf.

Tibouecatou, the fecond Sort a branching filky Nightshade, with a hite Apple-like Fruit, and a Thorny Leaf.

Another Sort of the Titoulibue, which is an high Tree in the Woods,

ith less Leaves, and a red Flower without Smell.

Tinoulou, a fenny Buckthorn, with Pods like a Crefcent, and feveral eet; the Flowers whereof are purging.

A Catalogue of SEEDS.

Tonoloumibi, a spreading purple spik'd Creeper, with a wing'd Seed that is us'd to intoxicate Fish.

Another Sort less beautiful and spreading, with a spik'd Berry, and

odoriferous Flowers.

Toulichiba, a Sort of podded, wild, Campion Tree, with the Mallow Leaf; the Seed whereof is a Sort of purplish black Pulse, or the liguminous Kind.

Tobocora, a thorny venemous Sea-Tree, with a double round Leaf, and Berries turn'd up with little Horns, including in 'em a Sort of flat

Agat-like Stones.

Tapire, great, broad, white Peas, streak'd on the Back with a purple Colour, call'd the Grand Gorgane, which the Poor make good Food of.

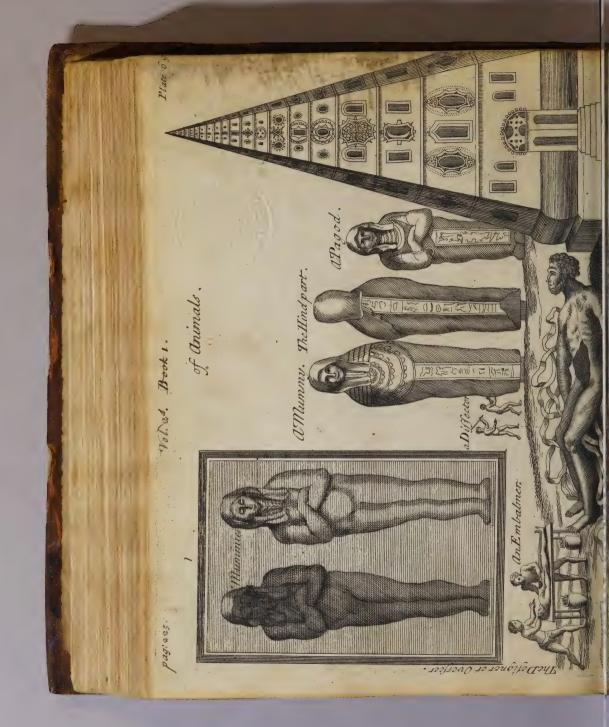
Urucu, an Indian Tree with a hairy Chefnut Kind of Fruit, and a red Flower, with which the Indians extract a famous purple Dye, and beforear their Bodies with it instead of Cloths.

Urucu, an Indian Tree, bearing a Berry with a smooth Fruit, and a

fleshy Flower.

POMETS





POMET's General HISTORY

DRUGGS:

With what is further observ'd by Monsieur Lemery, Turnefort, &c.

Molume the Second.

BOOK I. Of ANIMALS.

1. Of Mummies,

MONGS Tall the Testimonies of Respect, which Antiquity paid to the Bodies of the Deceas'd, that of a decent Burial was always in most Esteem; by which last and pious Acknowledgment, they were willing to honour and preserve the Memory of those whose Actions had recommended them in their Life-time, and perform'd a Work of Charity, tending to the Confolation of the Living, and the Peace and Repose of the Dead. The wonderful Pyramids of Egypt, of which I shall speak by and by; the Obelisks engrav'd and carv'd with such Pains and Industry; the Maufoleums; and in short all the rich and pompous self was buried after this Manner. Monuments, found throughout the World, are certain Proofs of the Piety and Regard practis'd the Interment of the Dead, makof the Ancients towards the Dead. But as ing Pits or Graves in subterraneous and rethere are several different Nations, and diftired Places, call'd Tombs, or Catacombs, ferent Religions, so there are particular Cu- and most usually Cemeteries, or Dormito-

stoms, in paying their last Respect to the Deceas'd. All the Elements have been Partakers of the Spoils of the Dead, the Earth not having been thought fufficient alone to

take care of the Relicts.

History informs us that the Fire burn'd and consum'd the Bodies of the Greeks, Romans, Gauls, Germans, and feveral other Nations; that there were a People who hung their dead Bodies in the Air, upon the Branches of Trees; that the old Inhabitants of the North found their Graves at the Bottom of the Ocean, as the Ethiopians, in the Current of their Rivers; and that the People of the frozen Scythia were bury'd in the Snow: But the most ancient Kind of Burial was that of Interring the Bodies, from whence we have Reason to believe, that Adam him-

It was from the Jews that the Christians

ries, that is Sleeping Places: But before Bu- when the Body was thus prepar'd, to put it at a Talent of Silver, which may be computed at about eight hundred and fifty Livers, at that Time of Day, but reckon'd now wou'd amount to eight thousand Livers, or five hundred Pounds Sterling and upwards.

This Embalming was us'd to none but Perfons of the first Quality. Three People us'd to be imploy'd in the Operation; one was a Kind of Designer, or Overseer, who mark'd out fuch Places of the Body, as were to be opened to take out the Bowels. The next was a Dissector, who, with a Knife made of an Ethiopian Stone, cut the Flesh as much as was necessary, and as the Law wou'd permit, and immediately after fled away with all the Expedition imaginable; because it was the Custom of the Relations and the Domesticks to pursue the Dessector with Stones, and do him all the Injuries they cou'd treating him as an impious Wretch, and the worst of Men. After this Operation the Embalmers, who were reckon'd as Holy Men, enter'd to perform their Offices; and began first, some to remove the Bowels in the upper Cavity, excepting the Heart and Reins; and others to cleanle the lower Belly, which they wash'd with Palm Wine, or other aromatical Liquors; and during the Space of above thirty Days, they wash'd the Body with Balfam, Gum, or Rofin of Cedar, and fill'd it with Powder of Myrrh, Aloes, Indian Spicknard, Bitumen of Judea, and other Things of the like Nature; but they never us'd Frankincenfe, which we now call Olibanum; either because of the great Veneration they had for that Drugg, or by Reason of its Scarceness. As to the Head they us'd Iron Instruments, which they thrust up the Nostrils, and pierced the Scull with, to draw from thence the Substance of the Brain; and afterwards they syring'd up precious and odoriferous Liquors.

The second Sort of Embalming was reckon'd at half a Talent, which was us'd to the middle Sort of People, where they contented themselves only to syringe the Body, or make Injections of Water, or rather of

rial they were embalm'd after a very curious into Sale for feventy Days; after which Manner, as shall be shewn. The first and Time they took it out, and having open'd most costly Kind of Embalming was valued the Hole they drew out the Intestines, which were almost wholly consum'd. This done. they wrap'd all the Body in Bandages of fine Linnen dip'd in Myrrh and Asphaltum; and the Designer, which they call'd the Scribe. cover'd the Wrappings with a painted Cloath, whereon was represented the Rites of their Religion in Hieroglyphick Chara-Eters, and the Animals which the Dead lov'd

The History of the Beetle.

The Principal of all those Animals, or that for which the Egyptians had most Veneration, was the Beetle; as well because of its wonderful Birth or Production, as from the Analogy or Resemblance they pretend this Animal has with the Sun, and the strange Instinct in this Creature to continue its own Species; for this little Animal breeds without the Aid or Affiftance of any Female; for when the Male wou'd produce, he seeks out the Dung of an Ox or Bull, and having found it, he forms a round Ball, of the Figure of the World, which with his hind Feet he turns from East to West, and turning himself towards the East, he imitates the Motions of the World. Having thus roll'd the Ball, he puts it in the Ground and leaves it there twenty-eight Days, which is the Time that the Moon passes thro' the Signs of the Zodiack; and during that Time he hatches the little Beetles in the Ball; and the twenty ninth Day, which is the Day of the Conjunction of the Moon with the Sun, and the Time Productions are made in Nature, this little Animal rolls its Ball into the Water, where it opens, and the Beetles get out. It is upon this account some say that it is. made the Emblem of Birth, and the Symbol of Fathers; because these Insects have but one Father, and no Mother. They represent also the World, because of the Ball which they form and turn round; and Man, because there are none but Male Beetles : They are of several Kinds, but those for which, the Egyptians have the greatest Veneration. a Decoction made of Simples, or other are such as have a Head like a Cat, accom-Druggs, and Oil of Cedar; and afterwards, pany'd with Rays, which gives Occasion to them.

them to believe that these Animals have some their departed Friends, having such Regard Analogy to the Sun; and the more, because this Infect has thirty little Paws, made like Fingers, which represents the thirty Days that the Sun makes each Month in passing thro' the Signs of the Zodiack : As to the other hieroglyphical Characters, the History of 'em is too tedious, but they may be seen in Father Kircher.

The third Sort of Embalming was for the poorer People, which was made with a Mixture of Pitch, and Bitumen of Judea; or other Druggs of little Value; and sometimes they us'd Egyptian Nitre, Salt, Honey and a moist Heat, that introduces itself into the Flesh by the Dissolution of Parts, and by the Mixture of heterogeneous Bodies, which possesses which the Heat opens and enlarges: The Air which is hot and moift is the most common Dissolvent of appear'd rather like Persons asseep than dead. all Bodies, and the only Way to preserve them, is to defend them from the Air; to which we may add, that the Air being full cannot perceive, because of their Minuteto the Flesh and Prey upon it; and as they eafily encrease, there are Seasons wherein all the Plague, and other malignant and contagious Diseases; and it hath been observed by Microscopes, that what we call a Ganrrene is nothing else but a vast Number of ittle Infects eating the Flesh, as Mites do Cheese. Therefore there is no other Way of teeping Flesh, but by excluding these Aninals, which is done by Means of Honey, Dil, Spirit of Wine, and some other Liuors, that fetter and entangle these Insects.

But the Curiofity of the ancient Egyptians vent much further, because of the great Veeration they had for their deceas'd Relations, which they suffer'd not to be interr'd or conat Ways to have them continually bere their Eyes, to the End that they might

to their Actions as to make them the Rule of their future Conduct.

For which Reason, when any of their Kindred died, they manag'd them so exquisitly, and dry'd them after such a Manner, that their Bodies became as hard as Marble Statues, which they call'd, in their Language, Gabbaras, which fignifies Mummies, and their Art of preparing them was fo nice, that nothing in them was disfigur'd: They wou'd paint their Faces of feveral Colours, and rather the Bodies were dry'd with Lime, or fometimes with Gold, after they had been embalm'd, their Arms lying a-cross, the one upon the other, and bound about with fine Wax; fometimes likewise they boil'd the Linnen, which had been before dipt in aro-Bodies in Oil to consume the Moisture, matical Gums; and then they put upon the which is the only Cause of the Corrup- Head a Napkin, like a Woman's Quoif, tion; for the Principle of Corruption is that hung down on both Sides upon the Breast, and behind upon the Shoulders: They had besides, under the Chin, a twisted Neckcloth, that served to squeeze their Cheeks together, and tye their Jaws close, so that they cou'd not fall, and thus they

If by any Sickness they were disfigur'd, they clap'd over their Faces Masks of Patt-board, or of painted Cloath, refembling the dead of an infinite Number of Infects, which we Person, and embelish'd or adorn'd with several Colours: On the contrary, if the Person ness, they are these little Insects that adhere was not disfigur'd they lest the Face and Ears naked, and so painted them as they pleas'd. The Dead being thus order'd, they were put the Air is full of them, especially in Time of into great Cases of Glass made on putpose, according to the Grandour of the Perion, and afterwards they plac'd them in the most elevated or highest Part of their Houses: And this they reckon'd fuch a valuable Pledge and Token of their Faith, that if any of them happen'd to want Money, he cou'd nor give a better Security than the embalmed Body of his Relation; and that which made it esteem'd so, was, that they wou'd spare no Pains to pay the Money again; for if by Mischance the Debtor cou'd not redeem this Pledge, he was reckon'd unworthy of civil Society, which engag'd him indispensably to find out Ways to recover his Kinsman in ey'd out of their Sight, but rather fought the Time limited, otherwise he was blam'd by all the World.

The same Egyptians were besides at a great hitate their Actions; that is to say, live many other Expences for preserving their Bocording to the Honesty and Integrity of dies: For after they were embalm'd, (tho'

not dry'd) with feveral precious Druggs, and wrap'd about with a great deal of fine Linnen, and sometimes they us'd above two hundred Ells of Bandage, so that nothing was seen but the Face, and sometimes nothing at all: they were likewise put up in Boxes or Coffins of precious Wood, which the Dead had caus'd to be made while living, together with the Body of the Idol or Pagod, which they worship'd in their Life-time. The Idols, or Pagods, were made of Gold and Silver, or other Metal; but most usually of the Clay of the Country, with hieroglyphical Characters, which denoted the Quality of the Dead, the Charge of the Embalming, the Time of their Death, and the Place from whence they came.

After they had shut up the Coffins of their deceas'd Friends, they carry'd them with great Pomp into the Places which they had caused to be built in their Life-time, as is to be seen at this Day by the Pyramids of Egypt, which are two or three Leagues from Grand Cairo; and Historians relate, that Chemmis King of Egypt made one, where one hundred thoufand Men were imploy'd for twenty Years, which was of a square Figure, and about fisteen Foot deep; and the Face or Front, on each Side of the Basis, was eight hundred Foot broad, and of the same Height, in which was a perpetual Lamp. We may see, by this, what Care was taken of their Dead; and we ought to undeceive those who are so credulous as to believe, that those are true Mummies which are brought us to fell again as a Commodity, being only Bodies pitched

over. Besides these pretended Mummies, and the former, we meet with another Sort; as those of Africa, which are call'd white Mummies, and are nothing else but the Bodies of those that are drowned in the Sea, which being cast upon the African Coast, are bury'd and dry'd in the Sands, which are very hot; and tho' they have been lufty Men in their Lives, after they have lain some Time there, they weigh nor above thirry Pounds, and are then in a Condition of keeping for ever. There is one in Paris, in the Cabinet of Mr. Boudet, Nephew to Mr. Boudet, the King's Physician. These Mummies are little us'd, because they are both dear, and have little or no Virtue in thema.

We may daily see the Jews carrying on their Rogueries, as to these Mummies, and after them the Christians; for the Mummies that are brought from Alexandria, Egypt, Venice and Lyons, are nothing else but the Bodies of People that dye several Ways, when ther bury'd or unbury'd, that are afterwards embowell'd, and have their several Cavities fill'd with the Powder, or rather Sweepings of Myrrh, Caballine Aloes, Bitumen, Pitch, and other Gums, and then wound about with a Cerecloath stuft, with the same Composition; the Bodies being thus prepar'd, are put into an Oven to consume all their Moisture; and being likewise well dry'd, they are brought, and fold here for true Egyptian Mummies to those who know no better, and don't understand that the Egyptians put fo great a Value upon their Dead, and what they did in this Kind was to preserve the Memory of their Friends, and not to make a Trade of: To prove what I fay, I shall relate what Mr. Guy de la Fontaine, the King's Physician, and after him Ambrose Pary, have faid.

The Sieur Guy de la Fontaine being at Alexandria in Egypt, went to see a Jew in that City, who traded in Mummies, that he might have ocular Demonstration of what he had heard fo much of; accordingly, when he came to the Jew's House, he defired to fee his Commodity or Mummies, which he having obtain'd with some Difficulty, the Jew at last open'd his Magazine, or Store-House, and show'd him feveral Bodies pil'd one upon another. Then after a Reflection of a quarter of an Hour, he ask'd him what Druggs he made use of? And what Sort of Bodies were fit for his Service ? The Jew answer'd him, That as to the Dead he took fuch Bodies as he cou'd get, whether they dy'd of a common Disease, or of some Contagion; and as to the Druggs, that they were nothing but a Heap of several old Druggs mix'd together, which he apply'd to the Bodies; which after he had dry'd in an Oven, he sent into Europe; and that he was amaz'd to fee the Christians were Lovers of such Filthinels.

But this is very different from what the ancient Phyficians believ'd, when they preferib'd Mummy; but as I am not able to ftop the Abuses committed by those who sell

buy, to chuse what is of a fine thining Black, not full of Bones or Dirt, of a good Smell, and which being burnt, does not stink of Pitch: This is reckon'd proper for Contusions, and to hinder the Blood from Coagulating in the Body; but its greatest Use is for catching Fish.

Some Authors will have it, that the Fat mix'd with Bitumen that flows from the Tombs, makes the true Mummy; and others fay that it is the preferv'd Flesh, which was made by a Jewish Physician, who wrote, That the said Flesh, thus preserv'd and embalm'd, serv'd for the Cure of several Diseases. They have likewise given the Name of Mummy to several natural Bitumens; as that of Judea, and those which flow from several Mountains of Arabia, and other hot Countries; but those Appellations are very improper, they being far, viscous, stinking Humours that breed in the Entrails of the Earth.

Of other Preparations made from Human

Besides the Mummy that is met withal in the Shops, we fell Human Fat or Greafe, which is brought us from feveral Parts; but, as every Body knows in Paris, the publick Executioner fells it to those that want it; so that the Druggists and Apothecaries sell very litde; nevertheless they vend a Sort that is prepar'd with aromatical Herbs, and which is without Comparison much better than that which comes from the Hands of the Hang-Man. This Adeps or Axungia is reckon'd very good for Rheumatisms, and other Diseases, proceeding from a cold Cause. Besides the Far, we sell the fix'd and volatile Death, as long as there is any Moisture left Salts of the Blood, Scull, Hair and Urine, and other chymical Preparations, to be found in Mr. Charas's Royal Pharmacopæia, &c. which those who desire to know further about these Preparations may have Recourse

Man's Grease is emollient, discussive, anodine, and antiparalitick; it is good against the Gout and contracted Nerves, made into an Oyntment, as follows: Man's Greafe, two Pounds; Gum Elemi, half a Pound;

this Commodity, I shall only advise such as Pound; Balm of Gilead or Peru, four Ounces; mix and make an Oyntment, by melting all together. Man's Scull is a specifick Medicine in the Cure of the Falling Sickness, and indeed of most Diseases of the Head, taking of the crude Powder rasp'd from the fresh Bone of the Skull, one Scruple or two in any proper spirituous Liquor: The Oil and volatile Salt are for the same Purposes, but in less Quantities.

Of the Moss upon the Human Scull.

The English Druggists, especially those of London, sell the Heads or Sculls of the Dead, upon which there is a little greenish Moss, which is call'd Usnea, because of its near Resemblance to the Moss that grows upon Oaks; and as Mr. Charas stay'd a confiderable Time in England, and faw great Plenty of 'em, I have only related what he told me on this Subject. This Moss is an Excrescence that grows two or three Lines high, on the Top and round Mens Sculls who have dy'd violent Deaths, and lain fome Time on the Ground, or hung in Gibbets, or the like: It only begins to grow when the fleshy Substance about the Scull is wasted away. The English Druggists generally bring these Heads from Ireland; that Country having been remarkable for them ever fince the Irish Massacre: You may see in the Druggists Shops of London, these Heads entirely cover'd with Moss, and some that only have the Moss growing on some Parts; and we ought not to be surpris'd at the Growth of this Moss on the Sculls of dead Men unburied, fince we daily fee the Hair of the Head, Beard, and some other Parts of the Human Body, grow after to supply Nourishment to the Part; and that the same Thing happens to the Nails is evident, but whether it will hold as to the Teeth, as some pretend, I dare not venture to affirm. The same Druggists send to foreign Countries, especially Germany, these Sculls cover'd with Moss, to put into the Composition of the sympathetick Oyntment, which Crollius describes in his Royal Chymist, and is very available in the Cure of the Falling Sickness. The Skulls of Cri-Bees-Wax and Turpentine, of each one minals newly hang'd, strip'd of the fleshy

Membrane, and the Brains taken out, being you to him for the Satisfaction of your Cuwell wash'd and dry'd, and separated with a Saw from the lower Part, is what the Druggifts fell by the Name of Human Scull.

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A Mummy is a dead Body of a Lemery. Man, Woman, or Child, which is embalm'd and dry'd: The first Mummies were taken from the Burying Places of the ancient Egyptians, near the Pyramids, where the finest were to be seen a few Leagues from Grand Cairo. This Embalming was made with Ballams, Rolin of Cedar, Jews Pitch, Myrrh, Aloes, and feveral other aromatical Ingredients, capable to dry up the Humidity or Moisture of the Flesh, to stop the Pores, and prevent the Air from entring, and to refift Putrefaction. We use at this Day almost the same Druggs for Embalming dead Bodies; but whether it was that their Druggs were better than ours. or that they had a more perfect Method of Embalming than we have; or that their Burying Places were dryer, more impregnated with Salts and Bitumens, or less subject to Putrefaction; their embalm'd Bodies lasted vastly longer without Corruption, than those we do at present, if we dare believe Tradition; for they pretend to show us Egyptian Mummies of near four thousand Years Duration; whereas we take a great deal of Pains in these latter Ages, to preserve them two or three hundred Years.

And here it may not be improper to give an Account of the modern Way of Embalming, from Mr. Dionis's Course of chirurgical Operations. Embalming is an Operation almost as ancient as the World, and which has been practis'd in all Ages; and either out of a venerable Regard to their Relations, or a Principle of Religion, Men have always endeavour'd to preserve their Dead, of the Truth of which Arabia and Egypt have furnish'd an infinite Number of Instances; but at present we embalm none but the Rich and Great, whose Relations only are willing to be at that Expence.

Mr. Penicher, a Parisian Apothecary, has given us a Treatife of Embalming, according to the Practice of both the Ancients and Moderns, which confifts of feveral learned der, and several others; wherefore I refer which relate to the Apothecary.

riofity; but talking indeed like an Apothecary, he gives us so many Sorts of balsamick Powders, that he wou'd very much puzzle us which to chuse, if we did not know that they are almost all alike. He further pretends that it is the Apothecary's Right to prefide in Embalming; that the Composition and Application of the balfamick Matters belongs to him; and that the Surgeon is prefent for no other End than to make the Incisions, and fix on the Bandages which he prescribes; but daily Practice overthrows what this Author pretends to advance. 'Tis the Surgeon only which embalms; 'tis he who is charg'd with the whole Operation; and after the Apothecary has prepar'd what he requires, he is not to concern himself any further in it, unless he will attend as one of the Surgeon's Apprentices or Affiftants, to hand to him what he has Occasion for.

Mr. Penicher cites as a President for Embalming, that perform'd on the Dauphiness. We are not to be supriz'd if his Relation is not exactly just in several Circumstances; he transcrib'd it from a Memorial, which the Apothecary to that Princels gave him; and its Author believing Pharmacy fo much above Surgery, that the latter could not dispute it. has by this Memorial, taken all advantagious Hints, which feem'd to him to favour his Opinion: But having perform'd that Embalming my felf, none can be a better Evidence in this Case: The particular Relation of which, to avoid Repetition, I forbear here, because the Method which I shall lay down, of performing a compleat Balfamation, will inform you of all that passed, at that of the Dauphiness.

After the Opening of the Body, and the Drawing up, and Signing of the Relation of the Particulars to be observ'd, with Regard to the Body, the Physicians and Surgeons withdraw, leaving to the operating Surgeon, the Care and Direction of the Embalming: Wherefore, all depending on him, he causes to be brought into the Chamber where the Corps is, all the necessary Ingredients and Instruments for that Operation, and which we know to be of three Sorts: First, Thole Enquiries on this Subject; he relates the which the Plummer is to make: Secondly, What Stories of the Embalming of David, Alexan-belongs to the Surgeon; and, Thirdly, Those

The

The Plummer being sent for, comes to take Alum, salt Peter; all which are to be well the Surgeon's Order about the Size of the the Heart after it is embalm'd; ordering him to bring all of them to the Chamber where the Corps is, at the Hour which he appoints. The principal Part of the Surgeon's nents are the same which are us'd in open-ng of the Body. The Surgeon then is to prepare five Bands; two of three Fingers Breadth, and four Ells long, to bind the Arms; two of four Fingers Breadth, and Ix Ells long each, to bind the Legs and vell pulveriz'd in a Mortar: 2dly, The Gums and odoriferous Druggs beaten to a ne Powder; and, 3 dly, A Liniment to rub ver and anoint the Body.

The first or coarsest Powder which serves fill the great Cavities, and to be put in ith the Entrails, is compos'd of four or ve and twenty different Plants; to which nd we make use of the Leaves of some of hem, the Roots or Flowers of others, and le Rinds, Barks, or Seeds of others: he most proper, and the most easie to be otten, are the Leaves of Laurel, Myrrh, osemary, Sage, Balm, Wormwood, Marram, Hyssop, wild Thyme, Basil; Roots

Orrice, Angelica, Calamus Aromaticus; e Flowers of Roses, Camomil, Melilot, ivender, Lemon and Orange Peel; the eds of Anise, Fennil, Coriander and Cumin: To all which, when well powder'd, to be added so many Pounds of common lt, as to encrease the Whole to thirty unds Weight. Of the other, which is

powder'd, and pass'd thro' a Sieve. The Coffin; because if he shou'd content himself Liniment is to be compos'd of Turpentine, with taking Measure of the Body, that Case Oil of Laurel, liquid Storax, and Balsam of would prove too little to hold it after Em- Capivy, by reason that of Peru is so scarce, balming; he bespeaks of him a leaden Bar- that it alone would cost more than all the rel to put the Entrails into; and also a leaden Embalming Ingredients: Three Pounds of Box made of two Pieces, to thut, to contain this Liniment are sufficient to make the necessary Embrocations. Besides these three Articles, the Apothecary is to provide three or four Pints of Spirit of Wine, five or fix great Bundles of Tow and Cotton, two Ells Apparatus consists in Bands; for the Instru- of the broad Cerecloth, and a large Bundle of coarse Cord. The Surgeon, provided with all these Preparations, is ready to begin the Embalming, which he executes in the following Manner.

Having order'd to be fet near him the leaden Barrel, the Surgeon takes fome hand-Thighs: And one yet broader and longer to fulls of the coarser Powder, and spreads it. perform the necessary Circumvolutions a- over the Bottom of the Barrel, and above bout the Body. 'Tis the Apothecary's Busi- that spreads Part of the Entrails; then lays ess to furnish: First, The aromatical Plants another Row or Bed of that Powder, and then another Lay of the Entrails, thus conrinuing on Stratum super Stratum, 'till he has laid into the Barrel all the Parts which were contain'd in the Head, Breast and Belly, except the Hearr, which he separates and puts. to soak in Spirit of Wine, 'till he has finish'd the whole Body, when he embalms that in particular; he must remember to end with a Lay of Powder, and if the Barrel is not full, he is to fill it up with a Bundle of Tow; but if the Plummer has made it too high, the Operator is to order him to cut off all of it that is too long, that the Cover being folder'd on, no Part of it may remain empty.

The three Venters or Cavities being thus evacuated, we are to wash them with Spirit of Wine, before we fill them up; which done, we begin with the Head, filling up the Scull with the Powder and Tow mix'd together; and having got in as much as it can contain, we put it again into its Place; and before we fow the hairy Scalp over it, finest Powder, there must be ten Pounds, we put betwixt them some of the firer or d it is to be compos'd of ten or twelve balfamick Powder; we pour some Spirit of oriferous Druggs, which are proper to Wine into the Mouth to wash it, and then eserve the Body for the Space of several fill it with the same Powder and Cotton: es; they are Myrrh, Aloes, Frankincense, We do the same to the Nostrils and Ears, njamin, Storax Calamita, Cloves, Nut- and then with a Pencil or Brush, we embrogs, Cinamon, white Pepper, Sulphur, cate the Face, Head and Neck, with a Li-

on all those Parts, we form a Crust over the whole Superficies. With the Powder and Tow the Operator fills up the Breast and Belly, which is now but one large Cavity; for in taking out the Entrails, he has before taken out the Diaphragm, which separated them one from another; he is not here to be sparing of his Powders, which must prevail in this Part, the Tow being only made use of to bind and keep them together; he returns the Sternum, and after having cover'd it with the fine Powder, which he also thrusts betwirt the Ribs and Tegument, he performs the Suture with a Needle, from the Neck to the os Pubis, and a transversal one, from one of the lumbary Parts to the other: With a Pen-Knife we make around the Arm four large Incisions of half a Foot long each, and as deep as to the Bone, and as many on the Wrist; these we wash with Spirit of Wine, and fill with the odoriferous Powder; we cover the Arm with the Liniment with the same Pencil, and gently Arow over it the same Powders, which eafily stick on by reason of the Liniment: We then take a Band with which we begin at the Hand, rolling it very tight up to the Shoulder, where 'tis to end and be fasten'd: Whilst the Operator is thus employ'd about one Arm, an Apprentice is to do the same to the other, conform to this Example.

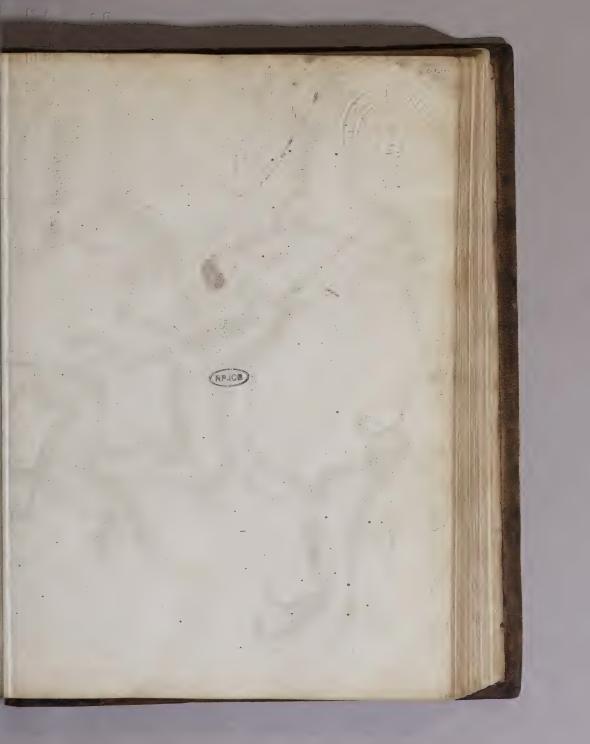
The fame Operation is to be perform'd to the Thighs and Legs, with this Difference only; that the Incisions are to be longer, deeper, and more numerous than in the Arms: These Parts, thus cut, look like Smitzers Breeches. After they have sufficiently imbib'd the Spirit of Wine, they are to be fill'd with aromatical Powders; the Liniment apply'd to them, and the Powders over then encloses it in a Bit of Cerecloth, whole them, the Operator rolls on the Band on one ly sprinkled with the same Powder; he bind Thigh, whilst a Servant applies another on and fastens it with the same Cord, shaping this the contrary; these two Bands begin at the Feet, and terminate at the Groin: We then turn the Body to make the like Incisions on the Back, at the Region of the Reins, and on the Buttocks; and if the Corps is fat, we are also to do the same around the Belly and Breast: The Lotions, Embrocations, and Application of Powders, are ended with the Belly Band, which is ftrong, very broad and long, and beginning at the lower Belly, vented a Way preferable to all others, which

niment; and after strewing the fine Powder fo perfectly rolls over the Body, that no Part of it is left uncover'd:

The Body thus enamell'd, we lay it on a Cerecloth in which we wholly enclose it, cutting it fo as to come close over all the Parts without folding it; and with a Cord, which is to be ten or twelve Ells long, we begin to straiten it about the Neck, to form the Figure of the Head, that it may be accomodated to that of the Coffin : We run it feveral times around the Body, each Circumvolution at the Distance of half a Foot from the other, and draw it as tight as we would a Pack to be fent by the Carrier. The Body is then put into a Linnen Shrowd, which with a String we tye at each of its two Extremities, leaving about a Handful beyond each of the Ligatures. We then call for the Coffin, ordering it to be brought near to the Table where the Body is; and if 'tis a Princels of the Royal Family, the Lady of Honour is to take hold of the Handful of the Shrowd which is left at the Head, and the Lady of the Wardrobe of that at the Feet, and they lay the Corps into the Coffin, which last Service they claim as their

If the Surgeon has any balfamick Powders left, he strows it in the Coffin, and fills the vacant Spaces with Bundles of aromatical Herbs, which he is to have ready provided for that Purpose; which done, the Plummer fixes on the Lid of the Coffin, which he folders on as expeditiously and nearly as he can: Whilst he is Soldering the Costin, the Surgeon embalms the Heart; he takes it out of the China Veffel in which he put it, washes it several Times in Spirit of Wine, and fills its Ventricles with the finest balfamick Powder, referv'd expresly for that End small Bundle in the Figure of a Heart, and fo putting it up in the Box. The Coffin be ing folder'd, we lay it on two Feet in the Middle of the Room, and cover it with Pall, and lay on the Coffin the Box which contains the Heart, which we cover with Crape, and leave both of them to be carrie to their destin'd Sepulchre.

Some of the Ancients pretendedto have in





and leaving only the Skin and Bones, to fubstitute in their Place aromatick Druggs, easier Ways, of which there are several Sorts with which Mr. Penicher has fill'd his Book; wherefore I shall forbear the Recital of them here, and content my felf in acquainting you that the History of Embalming, which I have just laid before you, is that which I have perform'd on the Dauphiness, and several Persons of the first Quality, being that which I take to be the best of them all. I have heard of ancient Sepulchres of Plaister, in the Middle of which the Body was placed, and also cover'd with Plaister; that in these Sort of Graves, the Bodies kept for a long Time, without emitting any ill Scent, because the salt Peter which is in the Plaister resists Purrefaction; and the Plaister imbibing the stinking Serosities which issue from the Body, stops the offensive Exhalations. This Fact may put some upon reducing it to practice; which in my Opinion shou'd be done the following Way: The Person refolv'd to try this Experiment, is to order the making either of a leaden or wooden Coffin, proportion'd to the Bulk of the Body, which is to be laid into it stark naked; when having ready three or four Hods of Plaister strain'd through a Sack, so that it may reach to the Edges, the Corps must be wholly buried in Plaister: By this Method we may keep a Body several Days in the House, and then lay it in a Vault design'd for the Dead, without the Danger of any ill Scent; and in my Opinion, 'tis impossible to embalm a Body with more Ease and less Expence.

2. Of the Unicorn.

our Naturalists describe under the Figure of a Horse, having in the Mid-

was to take out generally all the Flesh, or the Sea Unicorn, as you will find when we come to treat of Fish. This Horn was formerly in great Esteem, because of the and Powders; but this is not to preserve the mighty Virtues attributed to it by the An-Body, but only the Skin and Skeleton, from cients, especially against Poisons, which is Putrefaction. Some Moderns propose to us the Reason that so many great Personages have been very fond of it; so that it has been valued at its Weight in Gold.

> Ambrose Pareus, in a little Treatise which he compos'd of the Unicorn, says, That in the Deserts of Arabia he found wild Asses, which they call Campburs, carrying a Horn in their Front, with which they used to fight against the Bulls, and which the Indians made use of to cure several Diseases, especially venomous or contagious ones; and that the Arabs near the Red Sea, had another Animal among them, which those People call'd Pirassoupi, that has two Horns, long, streight and spiral, which the Arabs make use of when they are wounded, or bir by any venomous Creature; they let it infuse fix or eight Hours in Water, which they drink to cure them. He fays that this Animal is of the Size of a Mule' which also it resembles in its Head; and that the Body is hairy like a Bear, a little inclining to a fallow Colour, and the Hoof divided or cleft like the Deers. Johnston says, in his Treatise of Animals. that there are several other Unicorns to which the Reader may have Recourse.

The Kinds of Unicorns now come to be confider'd: That it is a Beaft having but one Horn all agree; but because several Kinds of Beafts have also but one single Horn, it is some Question which of these five must be the true: There is, First, The Orix, or one-horn'd wild Goat: 2dly, The one-horn'd Ox: 3dly, The Hart with one Horn: 4thly, The one horned Hog; and 5thly, The one horned Ass. The First is certainly but a Kind of one horned wild Goat; by the Description of it differing not much from a Goat: It resembles a Roe, having a Beard under its Chin, THE Unicorn is an Animal which of a palith white Colour, cloven hoof'd, with one Horn growing out of the Middle of its Head : They are bred in Egypt, Ethiopia, dle of his Head a spiral Horn, of two or and many other Parts of the World; some three Foot long; but as we know not the of which are as large as Oxen: Their real Truth of this Matter to this Day, I shall Horns are not only strong and sharp, like only fay, that what we fell under the Name the Horns of an Unicorn and Rhinoceros, but of the Unicorn's Horn, is the Horn of a also solid, and not hollow or porous, like certain Fish. by the Islanders call'd Narvual, the Horns of Harts. This Creature is faid Vol. II.

not to value the Barking of the Dog, the them, and fight with their fingle Horn like Foaming of the Bear, the Bellowing of the Bull, the Cry of the Panther, or the Roar-

ing of the Lyon.

in Aonia of various Colours, intermix'd one with another, having a whole round bloof, like a Horie, and but the Horn growing out of the Middle of the Forthead! It is also bred in India, where the whole Species cat Fiell, and are whole hoof'd, and fingle horned, which grows out of the Middle of their Foreheads; fome of them are faid to be as high as Camels, and their Horn four Foot long: There are in Ethiopia a Kind of a purple Colour, which have bur one Horn growing out of their Heads, which turns up towards their

The Unicorn Hart is a Beast bred also in India, whose Feet resemble an Elephant's, the Body a young Horse, and its Head a Hart's; out of the Middle of which grows a Horn, about three Foot long: It has a roaring Voice almost like a Bull, but much shriller. The Unicorn Hog, is so call'd from his Head, being like a Boar's or Hog's Head, Sund, as some Authors say, in the Dominions of the Great Cham of Tartary. These Unicorns are fomewhat leffer than Elephant, having Hair like Oxen, Heads like Hogs, Feet like E-lephants, a sharp and thorny Tongue, and a Horn in the midst of its Forehead, wherewith he destroys both Man and Beast. Had this Horn grown out of its Snout, it would have been a Rhinoceros; but as it does not, it must be taken for one of the Kinds of Unicorns.

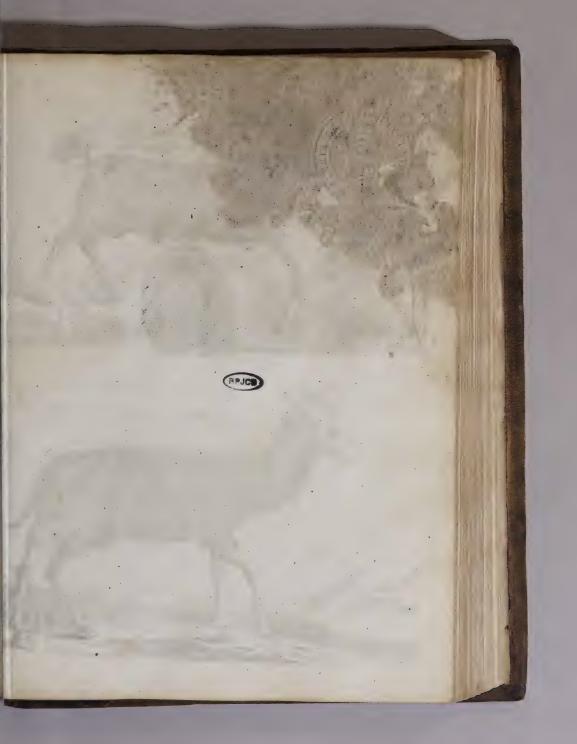
The one-horned Ass; is the Indian Ass, which equals in Bignels a Horse; all white on the Body, but purple headed and black ey'd, having one Horn in his Forehead, near three Foot long, whose upper Part is Colour not perfectly white, but somewhat red or black; the Middle black, and the obscure. neather Part white; in these the great People of India drink, adorning them with all Kind of precious Things, believing that those who drink in these Horns are freed

Bulls.

The true Unicorn, if you dare believe Ludovicus Vertomanus, who fays he faw two The one horned Ox, Bull or Cow, is bred of them at Mecha in Arabia, which were kept within the Verge of Mahomet's Sepulchre, is of a Weasel Colour, with the Head like that of a Hart, the Neck not long, and the Mane growing all of one Side; the Legs slender and lean like the Legs of a Hind; their Hoofs cloven like Goat's Feet, and the hinder Legs all hairy and shaggy on the Outfide: Of all the other five, the wild Indian Als comes nearest to this Description, for the true Unicorn and he agree in these four Things: First, That both of them have one Horn in the Middle. 2dly, That both of them are bred in India. 3dly, In that they are both about the Bignels of a Horse. 4thly, In their Celerity and folitary Life in the Mountains; but herein they differ; First, In that the one borned wild Indian Ass, is whole hoof'd, and not cloven as the Unicorn is. 2dly, That his Colour is white on the Body, and purple on the Head; whereas the Unicorn is of a Weafle-like Colour. 3dly, That his Horns are purple, black, and white, whereas the Unicorn's Horn is wreath'd in Spires of an Ivory Colour. In the Year 1553, a great Unicorn's Horn was brought to the King of France, valued at twenty thousand Pounds Sterling; that which was presented to King Charles the First of England, is supposed to be one of the greatest that ever was seen in the World ; it was seven Foot long weigh'd thirteen Pounds. and was in the Shape of a Wax Candle, but wreath'd within itself in Spires; hollow about a Foot from its Root, growing taper by little and little towards the Point, of a polish'd Smoothness, and the Spires not deep, but like the Windings of Woodbine, and the

Some in Poland have been found five or fix Foot long, being very tharp and smooth: others in the Rivers, but less pure, outwardly blackish, and inwardly of a pure white; a from any Sort of deadly Poison or In-fection. This As or Unicorn, exceeds all stance, so that one wou'd take 'em to be others of the Kind, both in Stature and Stone; and many other Sorts have been Body, and Swiftness of Foot; they are found in that Country. But that these, or so frong that no Horse can stand before any of the others, were true Unicorns

Horns,





Horns, none of our Authors have yet made Ends of the Branches which the Goats ear, or wreath'd, of the Colour of Ivory, but of a much finer Grain, and very white within. But this Horn is not produced by a four footed Beast, but comes from a Fish, call'd the Sea Unicorn, and is brought from Davis's Straits, near the North Passage.

Authors have ascrib'd almost incredible Things to it; the chiefest of which are to refift all Manner of Poylons, and to cure the Plague with all Sorts of malignant Fevers, the Biting of Serpents, mad Dogs, &c. and is chiefly us'd as a Cordial, for which Purpose a Jelly is made of it, together with a little Cochineal and Saffron; and the Shavings boil'd in Broths, &c. after the Manner of Shavings of Hart's Horn.

3. Of the Bezoar.

Stone that is call'd by that Name, to which great Rate, as is at this Day the right and five or fix Bezoar Stones weigh one Ounce, true Oriental Bezoar, as well because there is a great deal of Trouble in meeting with the natural Stone, as that certain Persons have found out the Secret of Counterfeiting it, by Reason these Animals do not produce any considerable Quantities; and besides several of 'em have none at all: We ought then to be well inform'd of the Nature, Shape and Diftinction of these Stones, above any other Drugg; therefore I shall relate to you what Mr. Tavernier says concerning Bezoar.

Bezoar comes from a Province of the Kinglom of Golconda lying on the North-East: It

appear; and if all the Circumstances be con-sider'd, it is much to be doubted, whether Animals: They take their Shape from that any of them were the Right or no; for as of the Buds and the Ends of the Branches, much as the Druggists or Apothecaries were which is the Reason they are of so many disnever known to have, or sell the True; that ferent Figures. The Pealants, by feeling of which is commonly fold, being from five to the Belly of the Goat, know whether there eight Foot in Length, and more, very sharp is any Bezoar there, and so sell it according pointed, running taper all along, and twisted to the Quantity that is therein. To know which, they rub their two Hands under the Belly of the Goat, and press the Maw or Stomach, along on both Sides; fo that what is therein may fall into the Middle of the Maw, and they can perceive exactly, by Feeling, how much Bezoar there is.

The Rarity of Bezoar is in the Size, for the small Sort have nothing so much Virtue in them as the large: But in that there is oftentimes a Cheat, because there are People who powder and mix Bezoar in a certain Paste compos'd of a Gum, and something else of the Colour of Bezoar, and form it up in the same Manner as we see the natural Bezoar; but we may discover this Fraud chiefly these two Ways: The First is to weigh the Bezoar, and steep it some Time in warm Water; and if the Water does not change its Colour, or the Bezoar lose its Weight, it is true and natural. The other THE Bezoar, which the Indians Way is to run a sharp Piece of red-hot call Pozan, is an Animal that Iron against the Bezoar, if the Iron enproduces in his Stomach, or in a Bladder, a ter, and it fry, it is a Sign of its Mixture, and that it is not natural: Besides, the they attribute great Virtues, which made it larger the Bezoar is the dearer it is, and heretofore highly valued, and to be fold at a rifes in Proportion as a Diamond: For if that Ounce will be worth from fifteen to eighteen or twenty Livers; but if it be one Stone of an Ounce Weight, it will fell for a hundred Livers: I have fold one of four Ounces and a Quarter for two thousand Livers.

There are a great many Bezoar Stones taken from Cows, both in the East and Western Countries, and they are so large as to weigh seventeen or eighteen Ounces; of which Sort I have seen one that was presented to the great Duke of Tuscany; but they have nothing near the good Qualities of the s found in the Dung that is in the Maw of true Bezoar; fix Grains of which will do the Goats that browze on a Shrub, the more than thirty of this. As to the Bezoar that is found in Apes, as fome believe, it is ears little Buds, about which, and the so strong, that two Grains will perform

very scarce, that Sort of the Ape Kind being tain'd, to which they give the Name of Beparticularly to be met with in the Isle of Ma- zoar, which we may see is contrary to what dagafear. This Sort of Bezoar is round, all Authors have wrote of it; and I shou'd whereas the other is of various Forms, ac- not have had the Confidence to have adcording as it is shap'd from the Buds and Ends of the Branches which the Goats eat. As these Stones which are produc'd from the Ape are a great deal scarcer than the others, fo are they abundantly dearer, and more fought after; and when one is found of the Size of a Nut, it is fold sometimes for a hundred Crowns. The Portuguese, above all other Nations, drive a great Trade with Bezoar; because they are always upon their Guard, or watching one another for fear of

But as I cannot altogether agree with this Relation of Mr. Tavernier, I chuse to subjoin what Mr. Du Renou has observ'd of Bezoar; it is a very active Animal, fays he, that skips from Rock to Rock, at his Ease, and is very fierce; fo that when he is closely pursued, he sometimes kills the Indian Hunters: The Hoof or Claws of his Feet are divided neither more nor less than the Goats; the Legs are pretty thick; the Tail short and turn'd up; the Body hairy as that of the He Goat, but shorter, and of an ash Colour inclining to Red, or rather of the Co-Jour of the Hind's Belly; the Head is shap'd like the Goat, and arm'd with two black Horns jagged at the lower Part, and turn'd backwards. What I shall relate here is true; I having feen two of these Creatures at the Marital Viery's Castle; besides what is further confirm'd from the Sieur Renou; what I gain'd was the four Feet, the Horn and the thin Membrane that invests the Bezoar Stone; as to the Horn and the four Feet, they agreed exactly with the Relation made by the Sieur du Renou : As to the Membrane, mention'd before, that is one of the greatest Curiofities that has been feen a long Time in France, by the Account of the most intelligent People.

is of the Size of a Goole Egg, supply'd on the Outfide with a rough short Hair, of a dun Colour, which being cut asunder, appears to enclose a Shell mark'd in the Cut, B, that is thin and brown, which makes a Covering for another Shell, that is white,

more than fix of that of the Goat; but it is that is mark'd C, where this Stone is convanc'd this, if I had not had the Original in my Hands, which makes it plain that there can never be more than one Bezoar Stone at a Time in the Belly of this Animal, because of the Bigness of this Membrane; and 'tis likely the great Number of these Animals that have no Bezoar at all in them, occasions their Scarcity and Dearness.

However, if you would have the finest and best oriental Bezoar, you must chuse that which is shining, of a pleasant Scent, tending to that of Ambergriese, smooth to the Touch, and which, rub'd on Paper done with Cerusse, makes it become yellow; the less it is broken in Pieces, and full of Bits irregularly shap'd, the better; and take care that the False ben't mix'd with the True, especially when 'tis bought in large Pieces; for the more shining, large, intire, and round it be, the more it is valued: But as to the particular Figure or Shape, it is of no Consequence, for its physical Use, whether it be long, round, crooked or twifted, smooth, rough, white, yellow or Grey, but the principal Colour that is usually to be met with, is the Olive Colour.

The Use of Bezoar was formerly very common, but at present we scarce know what it is, by reason of the Iniquity of the Times, and its extravagant Price, or that it grows out of Fathion; for Medicins have their Modes as well as Cloaths; notwithstanding which, this is a Preservative from pestilential Air, and a Remedy for the small Pox, Measles, or other contagious Diseases: It is reckon'd also proper against Vertigo's, Epilepsies, Palpitation of the Heart, Jaundice, Colick, Dyfentery, Gravel, to procure Labour Pains, and against Poisons; Dose from four Grains to twelve: The Jews call this Stone Bel-Zaard, which This Membrane, mark'd in the Plate, A, fignifies the Master, or Overcomer of Poison.

Of Occidental Bezoar ..

The Occidental Bezoar differs from the Oriental, in that it is usually much larger, being found sometimes of the Size of a small

Hen's Egg: It is likewife of diverse Colours, and the Goat; the Inhabitants, otherwife made up of feveral Laminæ or Crusts, of Bezoar arises. laid one over another like the former, but much thicker, and being broke, appears as if it had been sublimed, in that one sees a great many little Needles shooting like those in Salt of Lead, and the Bottom is foft, and very smooth, of a reddish grey Colour.

This Bezoar is brought from Peru, where it is found in some Goats, Harts, or those Animals that produce the Bezoar; and as they are but rarely met withal in the Belly of these Animals, that makes it, that very few are brought into France; it has also a very fweet Smell, and is much stronger than the Oriental Bezoar. And because this Be-Nations make it, with a grey Paste, which they form into round Balls of what Size they please; and I can affure you that I have seen one of the Bigness of a Tenis Ball, that was in the Middle, of a gilt Silver Cup so fix'd, that it could not be remov'd, to the End that it might be infus'd in the Liquor put into the Cup, in order to give a Flavour to it before they drink it.

Bezoar is a Stone taken out of Lemery, the Belly of certain Animals in the East-Indies, of which there are feveral Sorts. I have here mention'd four that are of Use in Physick. The first Kind, or that most commonly us'd is call'd, Lapis Bezoar Orientalis, or the Oriental Bezoar; it is found in Balls of different Sizes and Shapes; for some are as big as a Wall-Nut, others as a Nutmeg, others as a Hazel-Nut, and some as a large Pea; some are round, others oval, flat or bunch'd: The Superfices of all of them are smooth, polish'd, shining, of anolive or grey Colour: Their Substance; when broke, divides like Laminæ or Scales; that are form'd successively by different Accessions of saline Humours, which petrifie in the Belly of the Animals, after the same Manner as Stones are form'd in the Channels of a Current of the Waters, which continual-

but most commonly of a light Grey; it is call them Bezoar, from whence the Name

This Animal is very nimble, so that he will skip from Rock to Rock, and is dangerous to the Hunter; for he will defend himself, and sometimes kills the Indians that pursue him. The Head resembles that of the He Goat; the Horns are very black, and are bended almost to his Back; the Body is cover'd with an ash-colour'd Hair, inclining to Red, much shorter than that of the Goat, and nearest to the Dears; the Tail is short, and turns up again; the Legs are pretty thick, and the Feet are cleft like those of the Goat. Chuse your Oriental Bezoar in one whole Stone, that is smooth, zoar is very scarce, the Dutch and other shining, and of a pleasant Smell, inclining to Ambergrise; they divide into Laminæ or Flakes, when broken, of a grey or olive Colour; the largest are the most valued by the Curious, but it is of little Moment in Physick of what Size they are; it contains in it some small Matter of volatile Salt that is sulphureous and oily; it is esteem'd as a great Cordial, proper to promote Sweat, and drive away malignant Humours: The Dose is from four Grains to ten or a Dozen in any Cordial, or other proper Liquor.

The second Bezoar is call'd, Lapis Bezoar Occidentalis, or Occidental Bezoar; it is a Stone usually larger than the Oriental, but is not fo flick and fhining, of an afh or whitish Colour; they separate likewise into Lamine, but a great deal thicker than the Oriental Bezoar, interspersed with a great many small Points on the Inside; this has the same Virtues with the other, but much weaker, being given to half a Dram.

The third Sort is call'd, Bezoar Porci five lapis Porcinus, or the Hog Stone; it is almost of the Bigness of a Filbert, differently shap'd, and usually of a whitish Colour, inclining something to a greenish, but now and then of other Colours; the Outfide is smooth: They find this Stone in the Gall of certain Swine in Inly leave behind them certain Salts, which dia, in the Maluccoes, and several other Parts; coagulate and form themselves into a hard the Indians call them in their Language Ma-Crust or Stone. The Bezoar is produc'd in stica de solio, the Portuguese Pedro de Vassar, several Parts of the Belly of a wild Goat in or Piedra de Puerco; and the Dutch, Pedro the East-Indies, which they call, in Latin; de Porco : It is very scarce, and much value Supricerva, because they partake of the Dear ed, so that they sell it in Holland for four

bundsed.

of Industry.

Poison, and reckon it very proper to cure a that have the Plague: It is likewise us'd for the small Pox, epidemical Fevers, in hysterical Cases, and for the Stoppage of the Courses; it is pretended to excel Oriental Bezoar: When they use it, they let it stand infusing some Time in Wine or Water, that it may fion before Meals; it has a little Bitterness which is not unpleasant. There are those who have these Stones hung in little Gilt Chains to put into any Liquor for the Infufion, they keep 'em in little golden Boxes.

The fourth Sort of Bezoar is call'd Bezoar Simia, or the Bezoar from the Ape; it is a Stone as big as a Hazel Nut, round or eval, and blackish: They say it is taken from a Kind of Ape that is found particularly in a certain Island of America. This Stone is very scarce and dear; so that Mr. Tavernier fays, that when it is as big as a Wall-nut, they fell it for above a hundred Crowns: They are esteem'd more sudorifick and proper in malignant and pestilential Cases, than all the other Bezoars. The Dose is from two Grains to fix: The Signification of the Word Bezoar, according to some, is a Counter Poison; according to others, the Over-

comer, or Master of Poisons.

4. Of the Musk-Cat, or Goat.

Pomet. THE Musk-Cat is an Animal which comes very near to the Colour and Figure of a Hind, only it has a longer Body, according to the Skin which I have seen in the Possession of the Sieur Nicholas Rondeau at Roan. There are a great many of these Animals in the Kingdoms of "would adulterate it, they put the Liver Tunquin and Boutan, and in divers Parts of " and Blood chop'd together instead of some

Blood, which is collected under the Belly of "three Year's Time, certain little Animals this Animal, after the Manner of an Impo- " which eat up the good Musk; fo that stume; and when it is ripe, the Beast, by "you shall find a great deal of Damage

hundred Livers, and more: This Stone is Instinct, goes to rub itself against a Tree to fought after by the Indians with a great deal break it; and this corrupted Blood being dried in the Sun, acquires a strong Smell They use it as a great Preservative against that is very disagreeable, which it ought to retain when it is pure, and has not come in-Malady they call Mordoxi, which comes to the Hands of the Jews in Holland and ofrom an irritated Bile, which causes those ther Places, or of other Persons, who sophithat are seiz'd with it to be worse than them sticate it with Earth, dried Bloud, and other Contrivances.

They are much abus'd who are made believe that those are the Cods of the Animal: and that he gelds himself when he is pursued. as knowing that he would be taken for his Testicles: But this has been imagin'd, because impart its Virtue, then they drink the Infu- the People who put it into Bladders, cut them out into that Shape. Others would have it, that the Musk is a bruised Bloud. which is produc'd over all the Body of this Animal, by breaking it with Clubs; and that they afterwards wrap it up in Pieces of the Skin, which they cut and fow into the Fashion of Cods; but since both these Originals of Musk feem very odd and fanciful, I think it best to relate what Mr. Tavernier has written in his fecond Volume, Page 316, that the Reader may encline to which Opinion he likes best.

" The best Sort, and greatest Quantity of " Musk comes from the Kingdom of Bon-" tan, from whence they carry it to Pat-" na, a principal City of Bengal, to traffick with the People of that Country. All " the Musk that is fold in Persia comes from " thence; and the Merchants who trade in " Musk, had rather that you should give them yellow Amber or Coral for it, than " Gold or Silver; becanse those are the " two Things of greatest Esteem amongst

" them. " After they have flain this Creature, " they cut the Bag which is under the Bel-" ly, about the Bigness of an Egg, and lies " nearer to the genital Parts than the Navel; " then they take the Musk out of the " Bladder, which at that Time is like clot-" ted Blood. When the Country People of the Musk they take out. This Mix-That which we call Musk is a corrupted "ture produces in the Bladders, in two or " when

"Pealants, when they have open'd the Blad-"der, and taken out as much Musk as they " can, so as not to be perceiv'd, put in " small Bits of Lead to render it more weigh-"ty. Merchants who buy and transport it " into other Countries are more easie under this Deceit than the other, because those "little Animals don't engender in it; but the Cheat is still more difficult to be dis-" cover'd when they make little small Pure fes of the Skin of the Belly of the Ani-" mal, and fow them up fo neatly with Threads of the same Skin, that they seem " to be real Bladders, and fill these Purses " with that which they have taken out of the real Bladders, together with the fraudu-" lent Mixture they would add to it; which the Merchants can have no Know-" ledge of. It is true, that if they tye up the Bladder as soon as they have cut it off, " without giving Air and Time for the Per-' fume to lose a little of its Force by Evathey would take from it, it would follow that when any one put the Bladder to his Nose, Blood would burst forth immediately by the Force of the Perfume, which ought of Necessity to be tempered, that it was impossible to endure it in the Lodging; it gave all the People the Headach, so that it was remov'd into the Out-House, where some of my Servants cut the Bladder; which however did not hinder the Skin from retaining some of the Perfume. They don't begin to find this Animal 'till about the 56 Degree, the Country being full of Forests. It is true, that in the Months of February and March, when these Creatures have enthey are, by reason of the Snows that fall in great Quantities, so as to be ten or

"when you come to open them. Other "Arrows. Some Persons have affirm'd to " me that they are so lean and feeble, thro " Hunger, that they suffer themselves to be " run down. There must be a prodigious " Quantity of these Creatures, fince each " has but one Bladder; and the largest commonly being no bigger than a Hen's Egg, cannot furnish above half an Ounce of Musk; so that sometimes there must be three or four Bladders to make one Ounce. " The King of Boutan fearing least these "Tricks which are play'd with the Musk should spoil the Trade for it, since it can be had from Tunquin and Cochinchina, where it is dearer, because it is not taken in " fuch large Quantities, has some Time since " commanded that none of the Bladders should " be fow'd, but all brought open to Boutar, " which is the Place of his Residence, there " to be inspected and seal'd with his Seal. " All these which I bought were of this "Kind; but notwithstanding all the King's " Precautions, the People have a cunning portation, whilst they draw out that which " Way to open them and put in their small " Bits of Lead, (as I have faid) which the " Merchants endure the more patiently, be-" cause it does not spoil the Musk, but on-" ly deceives them in the Weight.

Musk is to be chosen in very dry Bladto render ir agreeable, without hurting ders, where the Skin that covers it is very the Brain. The Perfume of this Animal thin, and there is but little Hair upon it, bcwhich I brought to Paris was fo firong, cause there are some, where there is more of the Skin and Hair than the real Commodity. Let it be of a brown Colour, which is the Mark of the right Tunquin Bladders, which is much more efteem'd, and better than that of Bengale, which is cover'd with Skins that have white Hair upon them. When the Musk is separated from its Cover, that should be made Choice of, which is of but in the 60 there is a great Number, a dark Colour; of a strong and unsupportable Smell; of a bitter Tafte, and has as few hard and black Clots in it as is possible; and being put upon the Fire, dur'd much Hunger in the Climate where will burn and be confum'd; but this laft Mark is not of general Use, but serves only to discover that which is mix'd with Earth, twelve Foot deep; they come from the for the Fire will not manifest the Falsity North, Southward to the 44th, or 45th of that which is counterfeited with Bloud. Degree, to eat the Blades of the green Others will have it, that the right Musk Rice; and it is at that Time the Coun-ought to leave an Oiliness when press'd try People lay Nets for them in their Pal- with the Fingers. But as this is a Commolage, and kill them with their Staves and dity very difficult to be known, and the

Occasion to many Persons to mix it, and therefore one ought not to strive for a good Penniworth, but to buy it of honest Merchants, and reject all the Sorts of Musk which Persons carry about to sell, both in and out of the Bladders, it being nothing but Dirt; whereas to cover their Roguery, they pretend to fell it cheap, because they brought it out of the Country themselves, or that they have stole the Customs, which are indeed very high upon it; or that they are Mariners and their Captain has given it to them for their Wages, and by that Means put off their false Druggs, selling more for twenty Pence, than an honest Merchant can afford for twenty Shillings. I say then, that as for that which is mix'd with Earth it is easie to know it; because if a little be put upon lighted Charcoal, if there is any Earth it will remain; but on the contrary, Beaft, there will remain only a little whitish or grey Dust; which yet is to be rejected, as well as that which is of a pleasant Smell, because it does not get that agreeable Scent, but by the Addition of some Druggs that open the Parts of it.

The Use of Musk is not very frequent in Physick, because 'tis very improper for Women; but 'tis much us'd by the Perfumers; and if the Demand for it be not so great as formerly, it is because Perfumes are not so much in use as they have been here-

pofore.

Moschus, or Musk, is a Kind of Lemery. bilious Blood fermented, coagulated, from a thick Bladder or Pouch, as big as a Hen's Egg, which is found under the Belly towards the genital Parts of a wild four-footed Animal, call'd, Moschus, Moschius, Dorcas Moschi, Capreolus Moschi, Gazella Indica; they say it is of the Shape and Colour of a Hind; is produced in the Kingdoms of Boutan, Tunquin, and several other Parts of Asia; it frequents the Woods and Forests less of the Musk. Let the Hair be of a where they hunt it; and when they have kill'd it, they cut out the Bladder or Cod, which is under the Belly; then they separate the coagulated Blood which they dry in the Sun, and reduce to a kind of light Moss, almost powder'd, of a dark reddish Colour; it must be kept in a leaden Box, that the

most Cunning are deceiv'd in it; it has given this acquires a strong disagreeable Smell: They then wrap it up in Bladders for Tranfportation; and this is the Musk we use.

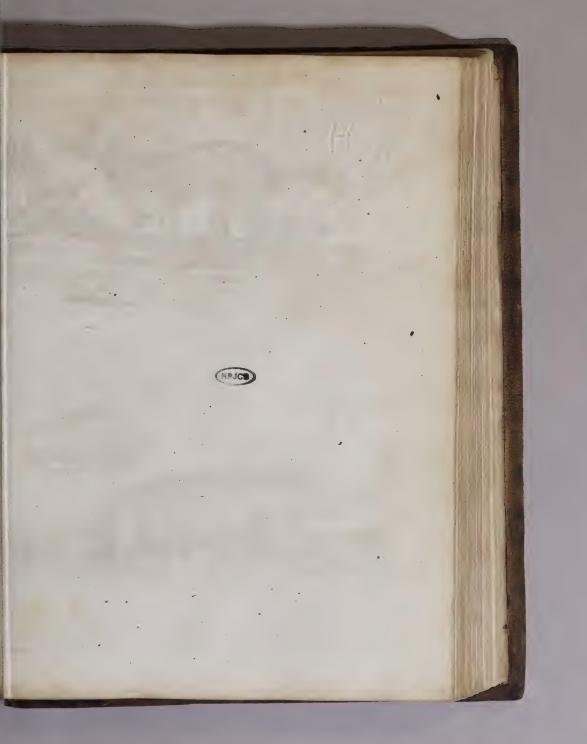
There are a prodigious Number of Animals that yield Musk, chiefly in the King-dom of Boutan; they catch 'em usually at Spring Time, or in the Beginning of Summer : For after they have been almost starv'd, during the Winter, because of the Snows, that fall in those Countries, ten or twelve Foot deep, they come to feek for Food; their Blood being then in a great Heat, and violent Fermentation; the Musk they then get is likewise strong and spirituous, which is the Reason they do not expose it for some Time to dry in the Air, least it shou'd quite destroy the Smell. They cannot take a great deal of Musk from any one of these Animals, because they have but one Cod apiece, which does not yield above three Drams of Musk dry'd. They fay that if it be mixt with the Blood and Liver of the that Bag, during the Rutting of this Creature, has an Abscess form'd in it; which when fully ripe it makes the Beast itch and rub himself against Stones, Rocks, and Stumps of Trees, 'till he breaks it; and it; is this Corruption, that when it is spilt and, dry'd in the Sun becomes Musk.

There is no Impossibility in this Story; but yet it is not to be thought, as most of the Naturalists, both ancient and modern, have done; that all the Musk we have is taken from these Abscesses. For is it likely that they can follow the Track of these wild Beafts, through the Woods and Forests, to gather up this Matter which they have thrown sometimes into Places inaccessible, and almost corrupted, which is taken into Mire or Sands? If we had no other Musk but that, it wou'd be much scarcer and. dearer than it is ; besides, a dry'd Absceis would be of another Colour than Musk, for

it would be of a light Grey.

When you buy Musk in the Bag, you should chuse that which is dry; let the Bag be thin, but little Hair upon it; for the more Hair and Skin there is, there will be the brown Colour, for that is the Mark of Tunquin Musk, which is most esteem'd. The Musk of Bengale is wrapt in Bags, with white Hair upon them.

When the Musk is separated from the Bag,





Coolness of the Metal may hinder it from gave it to one of my Friends, who made a only affect it with an agreeable Titillation. Women.

It fortifies the Heart and Brain, refreshes the decay'd Spirits; it resists Poison, discusles and rarefies gross Humours; increases Seed, and expels Wind. The Dose is from half a Grain to four Grains: It is good for Deafness, being put into the Ear, with a little Cotton; they apply it to the Womb to allay the Vapours in hysterical Fits, upon the Rifing of the Womb, call'd the Mo-

5. Of the Civet-Cat.

THE Civet is a thick unctuous Liquor, found in a Pouch which is under the Tail, and near the Anus of a Beast like a Spanish Cat, but much more fierce, and very voracious; this Animal has from hence the Name of the Civet-Cat, and is very common in China, the East and West-Indies, and likewise in Holland.

Authors differ extreamly concerning the Nature of this Animal, and that which we take from it. But as it is not my Purpose to repeat what they have written; I hall only relate what I myself have practis'd spon a Civet-Cat that I kept alive a Year together, whose Figure I have given you: It

growing too dry, and losing its most vola-tile Parts. That Musk is to be made choice ing kept this Creature some Days, I perof that is sufficiently dry, of a reddish Co- ceiv'd that the Wall and Bars that enclos'd lour, strong Scent, and a bitter Taste: It is it were cover'd with an unctuous Meissure, almost all Sulphur, or Oil and volatile Salt; thick, and very brown, of a very strong and it has very little Earth in it : The Scent is disagreeable Smell; so Lat during all the nauseous and disagreeable when you smell Time I kept this Animal, I rook Care to to a great deal of it at a Time, but sweet gather the Civet out of the Pouch every and pleasant when some sew Grains are mixt other Day, not without some Trouble and with a Quantity of other Ingredients. The Hazard, because it put the Creature to some Reason of the Difference is this; when it is Pain or Apprehension of it; and having done in a larger Quantity, the Parts evaporate fo fo for fome Months, I had about the Quanmuch, that they oppress and tire the olfactory tity of an Ounce and a Half; but is certain, Nerve; whereas on the contrary, when that if the necessary Care had been taken, there are but a few volatile Particles, they and the Beast could be hindred from rubbing itself, I might have got a great deal more; Musk has been us'd much more amongst but I neglected it, because the Colour of the Perfumers and Confectioners, than it is the Drugg, did not please those I show'd it at present; People are afraid of it now, to, though it was well scented, and as good because it raises the Vapours, especially in at least as that which is brought from 1101-

There is no Reason, therefore, to think that the Civet is the Dung or Sweat of this Animal, as some have believ'd, and told us, that the Animal affords no Civet 'till it has been well beaten; and that the more it is enrag'd, the more Civet it lets down under its Belly, and between its Thighs, which is contrary to the Truth, as may be remark'd from what I said before: And as to the white Colour of that which comes from Holland, the Reason of it is because the Dutch, who make a great Trade of Civet, feed their Cats with Milk, and the Whites of

Besides the Civet from Holland, there comes fome from Brazil which is brown, agreeable both in Smell and Colour to : .: gather'd from my Animal; and they give it the Name of Guinea, or Brazil Civet.

There is a third Sort call'd Occidental Civet, of which, because it is so common, and has no Relation to this Chapter, I shall fay nothing 5 and therefore remit the Reader to the feveral Authors that have treated of it.

That Civet is to be chose which is new. and of a good Consistence, that is, that it be neither 100 hard nor too foft, of a white Colour, of a strong Smell, and very difagreeable: This Commodity is as difficult to was brought from China, by a Person in the be known as Musk. It is for this Rea-Retinue of the Ambassadors of Siam, who son the Hollanders put little printed Cortes-Vol. II.

cates upon their Pots of Civet, to give it the bethicus, Felis odoratus, in English the Civetbrowner.

it is an infallible Mark that it is natural, which I have found to be false, having rried it several times. But besides the Care must be taken to have it from honest People, one must look whether in Keeping it does not grow musty and decay'd; because that which is mix'd will grow mouldy, both at Top and Bottom, especially if any Air get to it, land, with printed Certificates, into all Parts and will have a rank Scent, and very difagreeable: When this happens to People who have falfified it, and it becomes unfit for Sale, as well for its ill Colour as its Smell, Goodness; but the blackest is the worst. which is different from the right Civet; they colour it with some Druggs, and so pass it off under the Name of Guinea Civet, which will eafily be found our by its reddiff Colour, which they commonly give it, and not trufting to the Dutch or French Prints they put upon it, which ferve only to cover their Knavery, and to get twenty, or two and twenty Livers for that Commodity, which does not stand them in perhaps forty

Civet is of very little Use in Physick, but is most in Request with the Confectioners and Perfumers, where it serves to perfume, and give a Scent to other Ingredients. This Drugg is to be us'd with a great deal of Discretion; for if one exceeds, though never so little, the just Quantity that should be us'd instead of a pleasant Smell, it renders one that is very disagreeable.

quid Matter, or congeal'd Liquor,

Credit of being pure and not falsissied; and Cat: It is a Creature much bigger than a that it is such as it came out of the Pouches Cat, and less than a Badger, having someof the Civet-Cats; but the best Way is thing in it that resembles a Fox; the Face to buy it of honest Merchants, without is sharp like a Martin, with a black Nose; relying upon the printed Papers, or the its Ears short and round; its Eyes blue; the Colour, fince it may be of a Gold Colour, Leg and Foot black, more broad and open and yet be good; for if it be kept a little than a Cat's, but the Claws not fo crooked, Time, though the Pots be never open'd, nor hid in the Feet, but its Teeth are more the Top, how white soever it were be- terrible; it has Spots all over the Body; the fore, will become yellow, and of a Gold Hair of the Legs, and Feet, is very Colour; and as it grows old will be still the fine and fost, but in other Parts harsh, and standing upright: It is a near and cleanly Many Persons affirm, that if a Paper is Beast, and therefore the Place it is kept in rub'd with Civet, and one can write upon it, must be wash'd every Day. Merchants buy the young Ones, and breed them rame, feeding them with Bran, Rice-Milk, hard Eggs, Bread, Flesh, &c. so that a Cat that is large and gentle, may come to be valued at between four and eight Pound Sterling.

The best Civet is said to be made in England; but great Quantity is fent from Holof Europe. The best is of a clear, fine, lively, whitish Colour. The West-Indian. Barbadian, and African Civets, are next in which generally comes from the East-

It is a valuable Commodity, so that an Ounce when pure has been valued at forty Shillings: It is often adulterated with Ox Gall, Storax and Honey. It is much to be prefer'd to Musk, because the Scent is finer: It is of a subtle and clear Nature, and contains a great deal of Oil and volatile Salt; it comforts the Spirits, and is good against all Diseases of Head, Brain, and Womb. The following Mixture is good to perfume Cordial Waters and Powders, for the fore-mentioned Intentions. Take one Ounce of Civet, Musk in fine Powder, fix Drams; Ambergrise two. Civet put up in a Peffary, or Piece of Spunge, prevails against hysterical Fits and Vapours, put into the Ears with a little Cotton, it helps the Difficulty of Hearing. If that Mixture be ground with an equal Quantity of the Yolk Zibethum, Zibetha, Civeta, Ze- of an Egg, it so opens its Body, as to make it Lemery: petium; in English, Civet, is a li- mix exquisitely with any aqueous Substance; also with twelve or fixteen Ounces of Spirit unctuous, of a Scent that is very strong and of Wine, you may draw a most admirable unpleasant: The Beast from whence it is Tincture for the aforesaid Purposes; and taken is call'd in Latin, Hyana, Catus Zi- being anointed upon the Glans, just before Coition it is faid to cause Impregnation, and cure Barrenness. Civet is anodine and good for the Colick in Infants, if applied to the Navel.

6. Of the Castor or Beaver.

Pomet. THE Castor, or Beaver, call'd by the Latins, Castor or Fiber, is a four footed Animal, placed amongst the amphibious Creatures that live equally on the Land, and in the Water: At Land it feeds Flesh, so that it is not us'd but at other Times.

The Beaver has a Head almost like that of the Mountain Rat, but a little bigger, and proportionable to the Bulk of his Body, which is thick and gross, much about the Size of a Pig of fix Months old, and pretty large Teeth; the Under standing out beyond their Lips, three Fingers Breadth; the Upper about half a Finger, being very broad, crooked, ftrong and fharp, growing double, very deep in their Mouths, bending circular, like the Edge of an Ax, and are of a yellowish Red. They take Fishes upon them as if they were Hooks, and will gnaw in sunder Trees as thick as any Man's Thigh, being able to break in Pieces the hardest Bones; where he bites he never loses his Bristles about their Mouths are hard as Horns, heir Bones are folid, and without Marrow; heir fore Feet are like a Dog's, and their hiner like a Swan's: Their Tail is cover'd over re so terrible, yet when Men have seiz'd is Tail they can govern the Animal as they pon four or five Inches of the Tail, and e rest scaly.

The Beavers make themselves Houses o square Timber, which they gnaw down with their Teeth, almost as even as if it were fawed, and almost as equal as if it were measured; they lay these Pieces a-cross, and each is let down by large Norches into the other; so that having dug a Hole for their Foundation they build several Stories, that they may go higher or lower, according to the Rife or Fall of the Water.

I shall not dispute the Existence of those little Testicles, furnish'd with all the other Vessels and Instruments necessary for Geneupon divers Fruits, Leaves, and Barks of ration, which the Royal Academy have dif-Trees, and especially of the Willow Tree; cover'd some Years ago in the Thighs, and and in great Rivers upon Shell Fish, and near the Groin of the Beaver: But having such other Prey as it can catch. This Va- never seen these little Testicles plac'd in the riety of Food is the Reason why it's hinder Rank of Druggs, nor any thing sold for Parts, to the Ribs, have the Taste of Fish, Castoreum but that Part of the Animal and that they are eaten as such upon Fasting which the Ancients call'd Fibri Testes, with-Days; and all the rest has the Taste of out troubling myself whether these are true Testicles or no, fince this Treatise is not about Generation, it will be sufficient to give a just and exact Description of those Parts of the Animal, fince I know no other fo apt to be sophisticated as they.

That which we call Castoreum, is a fleshy Substance, contain'd at the Bottom of two pretty large Pouches, equal, diftinct, placed Side-ways, one by the other, and wrapt in one common Bag, fix'd below the Fundament of the Animal between the two Thighs, cover'd by a common Skin that encloses the whole Body, and there outwardly representing two Testicles, like those of a Boar; which though they lye within, yet may be diftinguish'd without the Skin, and taken in the Hand, altho' they don't hang down as the Testicles of other Creatures. Having Hold 'till his Teeth meet together: The open'd the hairy Skin, you meet with Britles about their Mouths are hard as Horns, the common Pouch, and in that the two others diffinct from one another, which contain the Matter that we call Castor.

The Custom is to tye these two Pouches vith Scales, being like a Soal, about fix as they are found, and hang them in the nches broad, and ten Inches long, which Chimney 'till they are well dry'd, and the e uses as a Rudder to steer with, when he Matter contain'd in them be grown hard, and vims to catch Fish. And the his Teeth the outward Pouch has contracted a brown Colour.

When these internal Pouches are open'd, lease. The Beaver of Dantzick has Hair there is found in the lower Part a Matter fleihy, folid and pulverifable, of a Colour like Cinamon, intermix'd and ty'd together these lesser Pouches, a little above the fleshy Matter another Pouch, dictinct, but much less, and fasten'd to that which encloses it, which contains an oily Moisture, of a Scent as strong as the former: This being new is like the best Honey before 'tis coagulated. but is of the Colour and Substance of Suet as

it grows older.

These are the true Marks of the Castor that is fold to be us'd in Treacle, Mithridate, and divers other cephalick and hysterical Compositions; and these I can avouch to be true, having bought and fold a great deal, and knowing that no Person of understanding will contradict me. But I can speak with more Certainty upon what M. Charas, who dwelt near the Rhosne, and those Places where these Animals are taken, has affur'd me: that he bought of a Pealant's Daughter the Pouches of a Beaver, just taken from the Body, which he hung up in the Chimney, being then of the Colour of Flesh; and appearing like Testicles, which Shape they retain'd when dried, that they then weigh'd fourteen Ounces; and being cut open had all the inward Parts, as I have describ'd them: That he afterwards got a live Beaver from the same Place, which a Country-Man brought him in a Tub, which was in all things conformable to the Description I have given; and especially as to the Pouches, which being fittated in the same Place as those of a Boar, were of so large a Size, that they were more than an Handful. The Beavers being of different Sizes, their Pouches are proportionable; fo that when they are dried we have them from four to fixteen

These Animals are bred in the Rosne, the Lisere, the Oise, in France, in Spain, Savoy and Italy; there are a great many taken along the Elb, and the great Rivers of Germany and Poland; as likewise in Lithuania and Muscovy, the Lakes of Canada, and Hudjon's Bay, in America; but it is almost a foster, according to the Coldness of the Re-

g on they are bred in,

with Fibres and Membranes, exquisitely in- to counterfeit it, which they do, by Mixing terwoven, and of a Scent that is extreamly the Powder of the true Castor with Gums frong. There is likewise found in each of that there is no Necessity of naming, and putting them in the Skins, which have contain'd the Testicles of Lambs and Goats, then they hang them in the Chimney, and pass them off for true Castor: But it is easie to discover the Cheat, by cutting the Pouches, and looking for the Marks I have given you; of which, the most effential is that you' will find none of the Fibres and small Skins so naturally intermix'd in them. And whereas the true Castor, when pounded, will pass through a Silk Sieve, and leave feveral little Membranes upon the Silk; the Gums won't pass, but remain clotted, without any Appearance of the little Skins before-mentioned.

I shall pass over that which several considerable Authors have reported of the Beaver. that being pursued by the Hunters, he bites off his own Tefficles, and leaves them for his Ransom; seeing he can no more bend his Body, so as to come at them with his Teeth than a Boar can do; and besides being always near great Rivers, it is easie to escape by plunging into the Water.

Caftor diverfly prepar'd is recommended in Diseases of the Brain and Womb, both inwardly and outwardly. The oily Substance is likewise us'd in Oyntment, and in

the Composition of Oil of Castor.

There was a Beaver diffected in the Academy of Sciences, which was three Foot and an half long from its Nose to the Extremity of its Tail; his greatest Breadth was twelve Inches, and he weigh'd above thirty Pound: His Colour was brown, and very shining, inclining to a dark Grey: His longest Hair was an Inch and an half long, and fine like the Hair of one's Head; the shorter was an Inch, and as soft as the finest Down; his Ears were round and very short, without Hair within, and outwardly like Velvet; he had four cutting Teeth, such as Squirrels and Rats, and other Creatures have that are us'd to gnaw Things: These Teeth below were above an Inch long; and the upper general Rule, that the Fur is finer, longer, and ones, which come something forward, were not directly opposite, but so dispos'd as to work in the Nature of Sheers, paffing one by The Dearness of Castor, and the Ava- another, being very sharp at the End, and rice of wicked Persons have induc'd People cutting like an Ax; their Colour was white

without, and of a bright Red within, inclining to a bastard Saffron: It had sixteen Grinders, eight of a Side. The Claws behind were joyn'd by a Web, like those of a Goole; but those before were without such Membranes, not unlike the Mountain Rat, and they use them for Hands as Squirrels do. Their Nails are cut floping, and hollow'd like a Pen to write with. The Tail, as well as the Feet, has more of the Nature of a Fish, than of a terrestrial Animal, and tastes like it, being cover'd with Scales of the Likeness of Parchment, about a small Straw's Breadth, of an irregular hexagonal Figure, which form an Epidermis, or Skin that joyns them together; it was eleven Inches long, and of an oval Figure, four Inches broad at the Root, and five in the Middle; this helps him in Swiming, and to beat his Mortar that he makes use of in Building his House, which he has sometimes of two or three Stories. His Testicles were not fasten'd to the Back-Bone, as Matthiolus, Amatus Lusitanus and Rondelet have told us; but they are hid in the Sides of the os Pubis, about the Groin, and don't appear without, any more than the Yard; nor can they be cut out without killing of the Creature: It had four large Pouches, fituated at the lower Part of the os Pubis; the two first were of the Figure of a Pear, and had a Communication with one another; they had an inward Covering, which was fleshy, of an ash Colour, streak'd with a great many white Lines, which had feveral Folds like those of the Skin of a Ram's Cod, and two Inches long, where there was a greyish Matter of a foetid Scent, and very thick; and this is the Castoreum so much spoken of.

The Castor, or Castoreum of Dantzick, being heavier, and of a stronger Scent, is pre-Let the Pouches be weighty, and fleshy; fill'd with Honey, or any other Counterweighty; and when they are cur will be hinder ones, a Swan's; it feeds upon Fruir,

full of little Strings, and have a Smell that is ftrong and piercing.

The Skin of the Caftor is esteemed the finest and softest Fur in the World, and is a valuable Commodity for making Beaver Hats. In Poland they line all Sorts of Garments with it, as making the best Show, and enduring the longest of any Fur: The Hair should be long, soft, and silky, and that of the fat Castor is preferable to the lean: The Skin being burnt to Ashes, and the Powder applied to the Nose, stops Bleeding.

The Fat of the Beaver is us'd as an Ointment against the Palfy, Convulsions, hysterical Fits, Apoplexy, and Falling Sickness: Take half a Pound of Beavers Fat, Oils of Rofemary, Nutmegs, Amber and Mace, of each, one Dram.

The general Virtues of Caftor are in strengthening the Head and Nerves, being prevalent against the Biting of Serpents and mad Dogs; it helps Forgetfulness caus'd by Sickness, curing Convulsions, Pains and Noise in the Ears from cold Humours, Coughs, Catarrhs, and Distillation of Rheum, provoking the Terms, caufing a speedy and easie Delivery to a Woman in Travel bringing away both Birth, and after Birth, and dead Child. It has been found effectual in Epilepsie, Apoplexy, Fits of the Mother, Gripings of the Belly and Cholick. It is prepar'd several Ways; but the Powder may be prepar'd as follows: Take pure Caftor in fine Powder, two Ounces; Saffron, Pepper, Bay-Berries, Tartar vitriolated, Camphire, of each, one Dram; mix them. The Dose is from one Dram to four Scruples in any proper Ve-

The Castor or Beaver is a fourfooted Animal, amphibious, for it Lemery. can live by Land or Water. It is about the Bigness of a Pig of fix Months ferable to that of Canada, which is general- Old; its Head is of the Shape of a Monnly dry, not clean, and has very little Smell: tain Rat: Its Teeth are large, strong, sharp and cutting; its Body short and hairy: Its and Care must be taken that they be not Skin is cover'd with a very soft Hair, of which they make Hats. Its Tail is about a feit, which is easily distinguishable; because Foot long, an Inch thick, four Fingers they which are fo fill'd up are bloated, broad, without hair, scaly, grey, hollow smooth, bright; and if press'd a little, send towards the Root, strengthen'd by Joynts, forth a liquid and corrupted Honey; where- running into one another. Its Legs are thore, as the others, on the contrary, are hard and those before resembling a Dogos, and the

Leaves, and Bark of Trees; and upon Fish and Powder of Kidneys, &c. as also whole when it is in the Water: It is half Flesh and half Fish: The First is not reckon'd good, but the Tail and hinder Legs are sweet like the Tuny, having a folid Fat; some of the Tails weigh four Pound, and are accounted a great Dainty both boil'd and roafted.

If you would take hold of a Beaver, you must seize on his Tail, and so secure him, that he cannot turn to bite you, and by the Hold you have of his Tail, you may govern

him as you please.

Amongst the Beavers some are accounted Masters, some Servants: They generate in the Beginning of Summer, and bring forth in the End of Autumn. They are cleanly in their Houses; for making of which, they draw the Timber on the Belly of their Ancients, they lying on their Backs; they love their Young; they use their fore Feet like Hands; and their Cry is like that of an Infant. Their Testicles are plac'd at the lower Part of the Belly, between the Thighs near the Fundament, but they lye within under a fleshy Skin, which is hairy, and covers all the Belly; however, they may be diffinguished outwardly, and handled. When they would have these Testicles, they open the fleshy hairy Skin, under which they find the first common Purse, which contains the two others in the Shape of little Purses, or the real Testicles of an Animal, then they tye them by the Neck, and hang them in the Chimney, leaving them 'till they be dry and hardned, and the outward Purse is of a brownish Colour; and this is what they call Castor: If you then open these inward Purses you will find a Matter which is hard, brittle, of a yellowish Brown, intermix'd with many loose Membranes of a strong and piercing Odour; and underneath this Matter there is another Pouch which encloses an un-Ctuous and fattish Liquor, very like Honey, which as it grows old, comes to the Colour and Confiftence of Suer, and is of as strong a Scent as the Parts that are more folid.

Some of these Purses are larger, some less, according to the Beast they are taken from. They are best cur'd by taking them out, cleanfing them purely, and drying them well in some shady Place; which when it is well done they will keep feven Years. It is adulterated by Gum Ammoniacum, Blood

Kidneys put up into little Bladders, but may be discover'd by being black, mouldy, and not apt to crumble; whereas the Genuine is of a foetid, strong, and unpleasant Smell; and of a strong, sharp Biting, and bitter Taste; and of a brittle Substance.

The Castor contains a great deal of exalted Oil, and volatile Salt; it atenuates viscous Humours, strengthens the Brain, provokes the Terms in Women, allays Vapours, resilts Putrefaction, causes Perspiration; is proper for Epilepsy, Palsy, or Apoplexy; and is a Medicine for Deafnels.

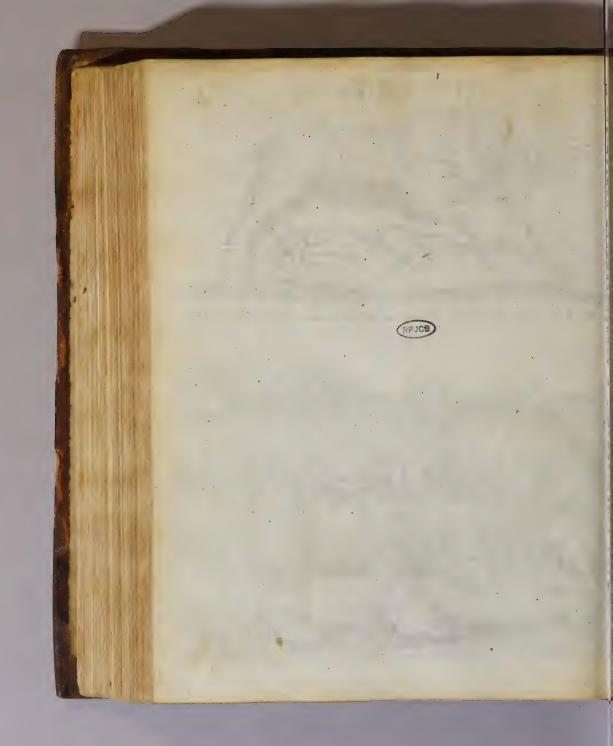
The unctuous Liquor which is found annex'd to the Testicles of the Beaver has the same Virtue, and is strengthening to the

7. Of the Elk.

HE Elk is a wild Creature that is commonly met withal in the cold Countries, especially in Sweden, Norway, Canada, and other Parts. This Animal is about the Height of a Coach-Horse, or a large Ox; the Head is very thick, the Eyes are bright, the Horns upon the Head are spreading and large, like those of the Deer; the Legs long and slender; the Feet black and divided at the Hoof, as those of the Ox or Cow; as to the Hair it is foft, and of a blackish yellow. I shall not stand to relate what Abundance of Authors have faid concerning this Animal: I shall only say, that the Name Eland, or Elan, given, by the Germans, signifies Misery; as well because that this Animal lives no where else but in desolate Places; as Woods, Forests, and the like, as because he is very subject to the Falling Sickness; and as soon as he is attack'd with this Disease, he fails not to put his left Foot to his left Ear to cure himself thereof, which has given Occasion to the Ancients to believe that the Elk's Claw, or the Horn upon the left Foot, was a Specifick for the Epileply.

Of all the Parts of this Animal, there is none used in Medicine but the left hind Foot, for the Reasons aforesaid; upon which Account the Buyer must take Care, that what is offer'd to sale be not the Foot of some





other like Animal; that is difficult enough to rubbing the Part, the Creature is thereupon distinguish, unless the Leg or the Skin be immediately deliver'd. In the Northern with the Foot, to see, by the Hair, whether Climes they live in Herds, and are taken it be the left hind Foot. You ought to take by Hunting; for upon the slightest Wound Care likewise, that it be not Worm-eaten, they are so timorous a Creature, they immewhich often happens when they are old; but diately fall down and yield themselves a Prey on the contrary, let the Claw be heavy, to their Enemies. In Sweden, Livonia, &c. black, shining, and very smooth; it is of they are taken, tamed, and us'd for Beasts

Skins are dreffed by Tanners, with Fish-Oil and Alum, to make Breast-Plates of, and to shelter from Rain: They may be known from a Deer or Hart's Skin, by blowing through them; for the Breath will come through like as in Buff. The Nerves are us'd against the Cramp, by binding the in Height and Thickness, exessected Part with them. The Horns are ceeds all the Beasts of the Earth; it faid to be Antiepileptick; but the chief Virtue is said to lye in the Hoof, being worn in a Ring, or hung about the Neck, so as it may touch the Skin; it is inwardly taken in Powder, being rasp'd, or filed like Harts-

ing towards the Back on the plain Edge, the Foot long, which Horns they lofe every Year. It is headed something like a Horse, are arm'd with great Teeth or Tushes, at has long Ears, a broad Forehead, and an the upper Part of the lower Jaws, for the upper Lip so great, that hanging over the nether it so much falls over, that it cannot eat for it but by going backwards: made, as well as Medicines and other necessit is a long-back'd Beast, with a short, or sary Things for Life. almost no Tail, and a cloven Hoof like the Hart; his Hair almost of the same Colour, and sometimes of a brown Russet: He has a Arange Kind of a Mane, lying both on the Top of his Neck, and underneath his Throat, Lock of Hair.

This is a melancholy Beast, and frequent-

fome Use amongst the Apothecaries for some of Burden; for they are both swift and other Diseases, as well as that named. ftrong, and serve well to draw in Sledges Some People eat the Flesh as Venison; the upon the Ice and Snow in Russia, Scandinavia, and other Northern Parts.

8. Of the Elephant.

THE Elephant is an Animal, that in Height and Thickness, ex- Pomer. is a very understanding and tractable Creature, being arm'd with a long, fleshy, and nervous Trunk, which ferves him inftead of an Arm or Hand upon many Occasions: It has likewise the Discretion or Knowledge, how to extend and contract his Body upon Alce five Alces, or the Elk, is a entring into a Passage several Feet lower Lemery. four-footed wild Beaft, of a large than its Body, provided it be wide enough Size, betwixt a Deer, an Ass, and for its Bulk. I don't believe it will be necesa Goat, having great branched Horns, bend- fary to give a very particular Description of this Animal, because there is scarce any con-Teeth or Branches of them being upwards, solid siderable Town in Europe but where this at the Root, and round like a Harr's-horn, but Creature has been seen; only it may not be much broader; they grow as it were out of amiss to inform you that the Elephants come their Eye-Lids, are very heavy, weighing from the Eastern Parts of the World, but at least twelve Pounds, and are about two more particularly from the Great Mogul's Country. They are the Males only that Females are much less; both these are cail'd Ivory, of which feveral fine Works are

I shall not trouble myself to give an Account of all that has been writ upon this Subject, by the Ancients, in Relation to the Elephant, but only take Notice of some sew Things that may be entertaining to the Reawhere it sticks out like a Beard, or cu-l'd der, if they afford him no further Instruction. Ambrose Parry gives an Account of two Sorts of Dragons which destroy the Elely afflicted with the Falling Sickness, con- phants after this Manner: These Dragons anning in the Pangs thereof, 'till the Hoof of wind themselves about the Legs of the Elebe left Foot touch the left Ear; wherewith phants; and then thrusting their Fleads up

them, and fuck their Blood 'till they are dead.

Pliny affirms he faw an Elephant which learn'd the Greek Letters, and was able with his Tongue to write a Greek Sentence; and in the Plays of Germanicus Cafar Elephants dane'd after Instruments of Musick, keeping Time and Measure. The Elephant is faid to have a Kind of Religion; for it worthips, reverences, or observes the Course of the Sun, Moon and Stars: For when the Moon shines they go to the Waters where they may see her; and when the Sun rises, they falute or reverence his appearing, by holding up their Trunk to Heaven in Congratulation for the Light; by a Kind of natural Instinct, they have some Fore-knowledge of their own Death; and when any of their Kind dies, they cover the dead Carcase with Dust, Earth, and green Boughs. They have a passionate Love to their Mafters and Keepers, and feldom forger to revenge an Injury on those that have offended them, as they are always grateful to their Benefactors. Aynou faith, an Elephant was cheated of the half of his daily Allowance by his Overseer; By Chance the Master came and served him; upon which the Beast divided it into two Parts, before his Master, laying one of them aside; by this the Fraud of the Servant was detected.

Pliny says, that an Elephant which was duller than ordinary, was found by his Mafter in the Night, practifing Things which he had taught him in the Day, with much Difficulty, and many Blows. It is reported they will live two or three hundred Years, if not prevented by extraordinary Accidents. They only breed in hot Countries, and scarcely can bear Cold and Winter Weather. As to their Teeth, they are often found very large. An Elephant's Tooth was fold to a Venetian Merchant about twelve Foot long, and three Foot Diameter; and it weigh'd so heavy, that he cou'd not lift it. Vertomannus faith, that he faw in the Island of Sumatra two Elephants Teeth, which weigh'd 336 Pounds: when these fall off which is about every tenth Year they bury them in the Earth, with their Feet.

The Ivory, which the Latins call Ebur, is the Teeth, or rather the Weapons, or

their Nostrils they put out their Eyes, sting Arms of the Male Elephane; the best and whitest of which comes from Angola, Ceilan, and other Parts of the East-Indies. The Trade of Ivory, or Elephants Teeth, is very great in France, as well as England, for many Purpoles. There is a Spirit and volatile Salt made from it, by the Recort, which is highly esteem'd in Diseases of the Heart and Brain; it is cold and dry, a pestilential Antidote, moderately binding, and strengthening the Bowels. Take Filings, or Raspings of Ivory, half a Dram; Powder of Man's Scull, Bezoar Mineral, of each fifteen Grains; mix 'em for a Dose in the Epilepsy, or any malignant Fever: Mix'd with Japan Earth, and Jesuits Bark, it is good for the Fluor Albus, Bloody Flux, Weakness of the Back, &. likewise Cocheneal and Saffron, being added it becomes an excellent Cordial.

Ivory Black is made of burnt Ivory that is taken from the Fire whilft it retains its Blackness, is then pounded, and with Water made into little flat Cakes or Troches for the Painters; which when good ought to be very finely ground, foft and brittle. The Apothecaries, or others, which distil Ivory by the Retort, instead of throwing the burnt Ivory that remains in the Retort away, may pound it and make it into little Cakes or Troches, as I have faid before, and then fell it to those who buy Ivory Black, or else put it upon a good Coal Fire, to reduce it to a white Powder, which is call'd Spodium, or

burnt Ivory.

Spodium, or Ivory calcin'd to a Whitenels, is burnt for the Purpole, that it may be serviceable in Medicine; the best is that which is white within and without, heavy, easie to break, in fine Shells; the least full of Dirt and Filth that may be. They bruise the Spodium upon a Sea Shell, or Stone, and make it into Troches, which is what we call Prepar'd Troches of Ivory or Spodium. The same Virtues are attributed to these, as to Coral and other Alkalies. The Ancients, besides Ivory, burn'd Canes or Reeds; and the Canes thus reduc'd to Ashes were also call'd, Burnt Ivory, Spodium, or Antispodiam; it strengthens the vital Parts, resists malignant Fevers, prevents Miscarriages in Women; helps Conception, cures Vapours and Fits; and likewise kills Worms in Chil-

Of the Rhinoceros.

The Rhinoceros is a four-footed Animal, of the Size of a Bull, whose Body resembles most the wild Boar; he is so call'd, because of the Horn that grows out of his Snout, which is black, about a Foot and half long, hard, pyramidal, folid; the Point or Tip whereof turns up again towards the Crown of the Head. There is also another Horn of the same Colour and Hardness, towards the Middle of the Back, which turns the fame Way as the other, but is not above a Hand's Breadth long. This Animal is cover'd all over with strong Scales, besides which he has two, as it were Targets, upon his Body. like the Wings of a Dragon, coming from his Back down to his Belly. In like Manner the Legs are scal'd to the Hoof's, which

are parted into four distinct Claws.

This Animal is an Enemy to the Elephant, and in fighting with him, fixes his Horn in the foft Part of the Elephant's Belly; for which Cause it is said, that an Elephant will run from him. When they fight they whet their Horn before-hand against Stones: They are not herce against Mankind without great Provocations; their Cry is like the Grunting of a Hog: The Indians make Bottles of their Skins to put Liquors in; the Powder being infus'd in Wine, or taken by itself to a Scruple, is good against malignant Diseases. The Horn which is chiefly us'd as the Unicorn's, is faid to be good against all contagious and malignant Fevers: for being a high Alkaly, both fix'd and volatile, it encounters and destroys the malignant Acids, which ftir up and influence the most pernicious Diseases; 'ris reckon'd a singular Sudorifick.

Elephas sive Elephantus, is a Qua-Lemery. druped, esteem'd the biggest in the World, of a monstrous Shape; the Head is great and deformed; the Mouth so large, that a Man's Head may as easily enter into it, as a Finger into the Mouth of a Dog; their Eyes are really large in themselves, but appear small in Comparison, and their Ears litcle in Proportion to the rest of the Body, not much unlike the Wings of a Bat: The Teeth on either Side are sour, to cat with and grind their Food, with two

others, one on each Side, which hang forth beyond the rest: It has a Trunk at the End of the Snout, call'd Proboscis, seu Tuba, seu Manus Nasuta, which is a large hollow Thing, hanging from his Nose, like Skin, downwards, serving instead of a Hand. When he feeds it lies open to draw in both his Mear and Drink; by this he receives of his Keeper whatever he gives him, and in Swimming draws throw it his Breath; it is crooked, griftly and inflexible at the Root, next the Nose, where it has two Passages, one into the Head and Body, by which the Elephane breaths, the other into the Mouth by which he receives his Meat; with this he fights in War, and is able to take up a small Piece of Money from the Ground, or any other Place; with this he can draw up a great Quantity of Water, and shoot it out again, to the annoying of his Enemy.

He is said to have four Venters, or Bellies, and Lungs four times as big as an Ox; his genital Member is like a Horse, but less, and the Testicles lye inward about the Reins: The fore Legs are much longer than the hind Legs, of short Joynts, and of equal Bigness, both above and beneath the Knees; the Ancle-Bones are very low, he bends his hind Legs as a Man when he fits, but not both together, and so leaning on one Side fleeps most commonly against a Tree: Their Feet are round like Horses, and as broad as a Bushel, having five distinct Toes upon each Foot, which are very little cloven, but without Nails; they are for the most Part of a Mouse Colour, or darkish brown; the Skin is harder on the Back, and softer on the Belly without any Covering of Hair or Briftles, unless here and there one scatteringly; it is so tough, that a sharp Sword or Iron cannot pierce it: The Tail is like an Ox's, but without Hair, except at the End. The Sound or Noise they utter, has the most Resemblance to Braying, and seems as if always hoarse. [The Virtues of the Elephants Teeth, or Ivory, are fully set

The Rbinoceros, call'd fo from carrying his Horn upon his Nose, is a large four-footed Animal, that looks as if he was something of the Boar Kind, only that he is much larger, and more lubberly and dull. His Head is thick, and enclos'd in a Sort of flat Cowl, Vol. II.

forth in Pomet].

for which Reason, according to the Rev. Portuguese have given him the Name of Moine das Indes, or the Indian Monk: by reafon of his Horn so advantagiously placed, he becomes formidable to the Bufflers, Tygers and Elephants, which he engages sometimes. This Animal is found in the Defarts of Africa, in Asia, at Siam, and in China, where they feed upon the Branches of hairy and the Nails and Blood are all us'd in Medicine, containing in them a good deal of volatile Salt and Oil; they are useful to refift Poyson, strengthen and fortify the Heart, procure Sweat, stop Fluxes of the Belly, and in Intufion or Powder, which drunk in Wine, purifies the Blood, and is a good Prefervative against infectious Air.

9. Of the Camel.

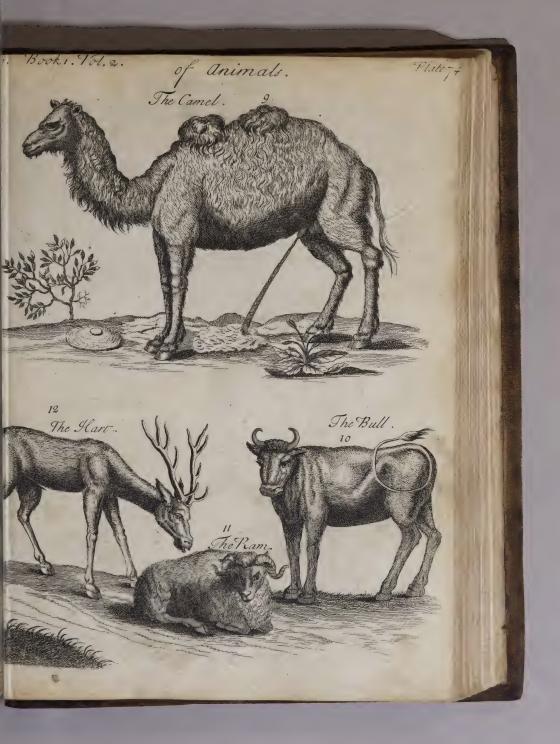
THE Camel is a gentle domeftick Animal, whereof there are great Numbers throughout all Africa, and particularly in Barbary, and the Defarts of Gesulia and Libya, and are the greatest Riches of the Arabs. Those of Africa are better than other, because they will travel forty or fifty Days together upon Barley only, and ten or twelve without eating or drinking at all. The Female carries her Burthen eleven Months. When the Camels travel in the Caravan, or labour in the Field, the Drivers of them whiftle and fing; for betrer they march; their Food is Grass, Hay, Thistles, Barley, Oats, Rushes and Herbs. There are three Kinds of Camels; those call'd Hegin are the biggest, and will carry a thousand Weight: The second Kind are what they call the Bechet, that have two Bunches on their Back, and are the best to ride upon; but these are only to be mer with in Asia. The Third they call Dromadaries, which are the smallest and finest, but fit for no other Use but riding upon, and are so fwift that they will travel thirty-five, or forty Leagues a-Day, and continue fo to .do nine or ten Days through the Delarts, with little or no Suffenance.

When these Animals are to be loaded, Father Le Comte's Memoirs of China, the they strike em over the Knees, and upon the Neck with a Stick, and they kneel upon the Ground to receive their Burthen; and when they are loaded, upon the Sign being given, they rife presently with it; these Creatures bear Hunger and Thirst with great Patience : some say they carry Water in their Stomachs a long time to cool them, by Means of a large Ventricle, about which they find a conprickly Shrubs and Trees. The Horns, fiderable Number of Bags inclos'd in the Tunicles or Coats thereof, in which it appears these Animals keep Water in reserve: And hence it is that some Persons affirm, that when the Turks go with the Caravan, or to Meca, and Water is scarce, they are good against all contagious Diseases: kill their Camels to drink the Water they The Dose is from a Scruple to two, either have in their Stomachs. It is from these Animals we have the Hair that is call'd by their Names, and of which several fine Stuffs are made; the best of which is that on the Back, and the least full of white Hair: In short, the Camel of all Animals is the most gentle, the least chargeable to keep, and which brings the greatest Profit to his Owner.

Of natural Salt Ammoniac.

Sal Armoniack, or rather Natural Ammoniac, is a Salt white within and without, of a saltish Taste, pretty like common Salt, only that it is more pungent. It is brought us sometimes from Arabia or Libya; but at present we have very little, by reason the Venetians and Dutch have found out a Way of making a Composition, that near resembles it in its Virtues; but there is a great the more they encourage these Animals, the deal of Difference in the Figure betwixt the Natural and Artificial.

When the Turks, and other People of Alia, or Africa, travel with their Caravans, their Camels, passing thro' the Desarts, urine upon the Sands; and the Sun thining fierce on the Urine, fails not to dry it up, and reduce it into a white Mass; the Truth of which has been testified by a Tryal made of a Piece which Mr. Tournefort gave me the 6th of March, 1693, whose Figure is here represented and mark'd A, and which I keep by me as a great Rarity. This Salt is cri-stallized; that is to say, it appears on the Top like Needles, as in Salt Petre refin'd, and hollow on the under Side, where there





is some Sand, which shows that the Salt is considerable for several Trades, besides the fublim'd by Means of the Sun, which railes it above the Sands that are very hot.

The Ancients univerfally agreed, that there was a natural Sal Ammoniac; that this Salt was found in the Libyan Sands, and that it was made from the Camels Urine, which travel'd to the Temple of Jupiter Ammon, from whence it took its Name: And others fay that it comes from the Greek Word Ammos, which fignifies Sand; and therefore we ought not, as is commonly done, to call it Armoniack, but Ammoniack. There is, befides this, another Salt Ammoniac, or Natural Armoniac, or rather more properly speaking an artificial one, which is made after the same Manner as we make Salt Petre, that is drawn from a Kind of Earth, or faltish Scum or Drofs that is dug out of old Caverns, and the Chinks of Rocks, which are betwixt Labor, Thanusseri and Tzerbine : But as these two Salts are almost unknown to us, and that we meet but with very little of them, for this Reason we shall content ourselves with that brought from Venice or Holland, but the last is chiefly what comes to Paris, especially in Time of Peace.

Of artificial Sal Armoniack.

The Sal Armoniack, or rather Acrimoniack, or according to fome Acrimonial, is a Mass or Composition of several Things, made in Shape of a Pot-lid, which the Venetians or Dutch make, according to the Relation of several Authors, from Human or Animal Urine, common or Sea Salt, and Chimney Soot, boil'd altogether, and fublim'd into a Salt, and form'd into Cakes, as we have it now brought to us. Some have affur'd me that Sal Armoniack was likewife compos'd of all Sorts of Blood, which I cannot be satisfied in, having never feen it done.

That Sal Armoniack is the best which is clearest, whitest, and most transparent; and which being broke, there appear in it as it were Needles, and that which is the dryest; but reject that which is very commonly met with, and is black without and within; and

many excellent Preparations made from it in Chymistry; it serves the Dyers, Goldsmiths. Founders, Pin-Makers, and almost all that work in Metals, and the Farriers.

In the Sublimation of this artificial Salt, according to the Composition mention'd before, the volatile alkalious Salts of the Urine and Soor, do raise up as much of the Acid, or Sea Salt, as they can hold ftrictly together, which feems to be fix'd; fo that it appears this Salt confifts of two different Natures and Properties; to wit, of Acid, and Alcaly fix'd, and Volatile; and accordingly two different Spirits, or Salts, may be drawn from it, viz. a volatile alcalious Spirit and Salt, and an acid Spirit and fix'd Salt.

To purifie Sal Armoniack.

Dissolve it in a sufficient Quantity of Water; filtrate the Dissolution; and in a Glass Vessel, either evaporate 'till it is dry, by which you will have a pure white Salt, or evaporate it 'till a Pellicle arises, and set it to chrystalize according to the usual Way. You may also purifie Sal Armoniack, by Sublimation, thus: Take Sal Armoniack in Powder, Sea Salt decrepitated, or rather Smiths Scales; mix them, and put the Mixture into an earthen Cucurbit; and having plac'd it in Sand, fit to it a blind Head; give a gentle Fire at first, and encrease it by little and little, until you can see the Sal Armoniack rise up like Meal, and stick to the Head and uppermost Part of the Cucurbit, and continue the Fire 'till nothing more will ascend; the Vessel being cold, gather these Flowers with a Feather, and keep 'em in a Glass close stopr; they are only Sal Armoniack, and their Virtues the same with the former, being given only to one Scruple: Thus purified from Sea Salt, the Flowers are white; but from Iron Scales they are of a yellowish Colour; the latter being much the better, and more successful against Quartans; and both of them are very powerful Agents in all chymical Operations, for extracting the Sulphurs of Metals and Mincwhich being broke is almost all grey or rals, both by the Help of Sublimation, and black: That which comes from Venice is the otherwise. This Sal Armoniack purified, is pureft; that from Antwerp and Holland, the also us'd outwardly against Gangrenes, and most common Sort. The Use of it is very to consume superfluous and corrupted Flesh;

it prevails in a Gargarism against the Quinfey and Instantation of the Throat, and in a Bath it gives Relief in the Gout, especially if Clothes be made wet therewith and applied.

Of volatile Spirit of Sal Armoniack.

Take Sal Armoniack and Quicklime in Powder, fix Ounces of the first, and one Pound of the latter; mix them in an Iron Mortar; add three or four Ounces of Water or Urine; put them quickly into a Retort, the Half whereof is empty; fet it in a Sand Furnace, with a very large Receiver, luting the Junctures close; begin the Distillation without Fire for a Quarter of an Hour; then add the Fire, increasing it by little and little, 'till no more Spirits come forth: Take off the Receiver, and immediately turning away your Nose, put the Spirits into a Glass, which keep close stopt for Use, you will have four Ounces of Spirit or better: This is stronger than that made with Tartar, being endow'd with the fiery Particles of the quick Lime; which being mix'd with Spirit of Wine, prevents the coagulating; whereas that made with Tartar . will cause a Coagulum upon the Spot. This Spirit prepared either Way, corrects and hinders Putrefaction, more than most other Things in the World; and powerfully refifts the Poison or Venom of the Plague or Pestilence; and is very profitably given against all putrid Fevers: The volatile Spirit and Salt, are more subtil and penetrating, and of a kinder Tafte and Smell than those which have been extracted out of plain Urine, because they were not fermented and depurated by common Salt. This Spirit is good in all hypochondriacal Cases, Suffocation of the Womb, &c. but chiefly against Diseases of the Head; as Vertigo, Lethargy, Epilepfy, Deafness, Pally, Trembling, and the like: In a Word, it is good in all Diseases proceeding from Corruption, or Obstruction of Humours.

Of the acid Spirit, and fix'd Salt of Armoniack.

After the Spirit is drawn off with Tartar, there remains at the Bottom of the Cucurbit

seven Ounces, and better, of a white fix'd Mass, from which you may distil an acid Spirit, as you do Spirit of Salt; for indeed it is a Kind of Spirit of Salt, or little better; otherwise you may dissolve it in Water, filtre and chrystalize, so will you have a very good Salt against intermitting Fevers, given from ten Grains to thirty; this is as agreeable an Acid as any we have; and is very proper to allay the Heat of Fevers, to provoke Urine, and stop the too violent Fermentations of the Blood. There is another Way of making the fix'd Salt, by the Means of Egg-Shells, or quick Lime, which they reduce with the former Mass, into a clear transparent Body, like Crystal, which is a very good Caustick, but easily runs to Water; for which Reason, those who are desirous to keep it, put it in a Glass Bottle well stop'd, so that no Air can enter. This fix'd Sal Armoniack being reduc'd into a Liquor, is what some call, tho' improperly, Oil of Sal Armoniack; and is indeed an Oil per deliquium. which feveral Persons keep for the Resuscitation of Quick-Silver.

Camelus, or the Camel, is a very tall tractable Beaft, that is of migh- Lemery. ty Service to all the People of Asia and Africa; his Neck is long, the Body very thick and broad, having a Bunch on his Back, and fometimes two: The Tail is like that of an Ass, his Buttocks are small, confidering the Bulk of his Body, and the Legs very long. The Female goes with Young eleven, and sometimes twelve Months; and when the young Ones arrive at an Age and Size fit for Service, they load 'em with Burthens as we do Horses in Europe: But as this Animal is very high, so that it is difficult to load them, they are taught, while young, to kneel down upon their Knees to receive their Burthens; and this is the Reason that they become, in Time, so callous and hard, that they have scarce the Sense of Feeling on

These Camels are the usefullest Creatures in Africa; the Arabs make great Advantages of em, because they wil live hard, and endure both Hunger and Thirst with much Ease, and wonderful Patience. These Beasts are great Lovers of Singing and other Musick; so that those who travel long Journeys with them, sing or pipe all the Way to make them

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go the faster and more chearfully. There the Heart of the Ox, which is now and then are three Sorts of 'em; the First, or largest fized, is call'd Hugium; the Second more peculiar to Afia, is nam'd Becheti; and the Third is Dromas sive Dromadarius, the Dromedary, which the Arabs call Raguabil; and is a small, thin, lean Creature, in respect of the others.

All the Parts of the Camel yield a great deal of volatile Salt and Oil; the Flesh being ear, provokes to Urine; the Greale or Fat is emollient, softening, and resolutive, proper for the Piles or Hemorrhoids: The Brain being dry'd and beat to Powder, is good for the Epilepsy; the Gall mix'd with Honey is reckon'd proper for the Quinley; the Milk loosens the Belly, procures an Appetite, relieves or gives Ease in an Asthma: The Blood is said to be proper to incline Women to conceive, if the Region of the Womb be fomented therewith after the menstrual Flux. The Urine is good to cleanse the Teeth, and make Sal Armoniack of. The Dung is vulnerary and deterfive, and the Milk and Flesh good to eat, so that the Arabs feed upon them.

10. Of the Bull, &c.

THE Bull, Ox, Ram, or Wether, are Animals fo well known to all the World, that it wou'd be useless to give a Description of them. There is sometimes found in the Bladder of Oxen, a Stone of the Colour and Shape of the Yolk of an Egg, that is foft, and of diverse Crusts like the Bezoar; for which Reason it is call'd the Ox Bezoar, or the Gall Stone, which if good ought to be high colour'd and well dry'd; for if they are purchas'd when taken fresh from the Animal, they wast considerably in drying; sometimes this Scone is fold pretty dear, especially if it falls into the Hands of Persons who know its Value, The greatest Use that is made of it is for painting in Miniature, as they use met with at Home, it makes it not so much these we trade in Beef-Suet, or Tallow, that valued as Oriental Bezoar. We likewise, comes from Ireland, which ought to be new sometimes, meet with a Cartilage in the Heart of an Ox, like that of the Stag, to which they give the Name of the Bone in or Cow, are fluggish horned Beafts,

us'd in Physick, instead of that in the Stag's Hearr, tho' very improperly.

By the Burning of Beef Bones, there is a Black made, call'd Bone Black; it ought to be fine, brittle, shining, and well ground; its Use is for Painting. There is a Glue made of the Cartilages, &c. well boil'd in Water, which is cast into Moulds, and afterwards spread out and dry'd; this is then call'd Bulls Glue, or strong Glue, of which they make a confiderable Trade in France, especially of that made in England or Flanders.

The strong English Glue ought to be chose well boil'd, dry, clear and transparent, of a reddish Brown, easie to break with the Fift, not gravelly or foul, but the smoothest and neatest that can be had; rejecting such as when it is melted stinks much; as all the strong Glues that are made at Paris, or thereabouts do, which are less valued for any Kinds of Works, than that which is brought from England. The Flanders Glue ought to have the same Qualities with the former; but not being so much boil'd, they use this Glue for Hat-making; it serving them better than that of England, as well as to paint in Water-Colours.

The West-India Company in France bring. especially to Rouen, a great Quantity of Ox Hides from Barbary, of which the Merchants of Roilen make a confiderable Bufiness, but at Paris they sell but few; the greatest Share comes from Senegal with the Gum and the Gold Dust. As the Merchants of Rouen are oblig'd to give Credit for three Years to the Tanners; if by Accident any Tanner comes to fail or die, and that the Successor of him is not able to pay for his Goods, the Merchant is permitted to open his Tan-Pits, and withdraw his Merchandize. Besides these, we sell Ox Hides from Hungary; the best are the whitest, and the true Hungarian. because they are much better than those which are made in France; likewise English Calf-Skins, and others without Hair, or dress'd, Gamboge: The same Virtues are ascrib'd to which come from several Parts, as well as this as to Bezoar; but as this Stone is to be Flocks and Beafts Hair: Over and above all and white.

> Bos, in English, the Bull, Ox. which .

the Horns of the Bull are short, of the Ox very large; it is a Beaft generally known, yet they differ much in their Shape, Size, Horns and Colour, according to the Variety of Countries where they are brought forth; they yield from every Part a great deal of Oil and volatile Salt. The Flesh of the Bull is coarse and rough to that of the Ox; the Cow's Flesh, if fat, is good Meat; but if old and lean it is not eatable: The young Bullock's Flesh is fine, but much inferior to the Oxes. Veal is a pleasant Mear, easie of Digestion, Toolens the Body, and heals the Bowels in a

Bloody Flux.

The Blood drunk warm is faid to cure the Epileply; besmear'd upon the Skin warm, it takes away all Foulness; and is also good against the Gout and other Pains: The Fat is emollient, and is us'd in Ballams, Oyntments, and Plaisters; it eases Pains proceeding from Cold; cures Kibes and Chilblains, and heals the Chapping of the Hands, Lips, Nipples. Fundament, &c. The Chymical Oil is good against the Gout, Palsies, Numbnels, Contractions of the Nerves and Muscles, Lamenels, &c. the Marrow is of the same Effect, but much finer. The Horns are alexipharmack, and by some call'd the English Bezoar; the Powder rasp'd from the Horn much exceeding the trueft and best Oriental Bezoar. Moreover it is of fingular Use in the Falling Sickness, Fits of the Mother, Convulfions, Palfies, Lethargies, &c. The Hoofs, and the Volatile Salt thereof, are Specificks for all the Diseases the Horns are faid to be good against.

The Gall mix'd with the Marrow and Fat of a Hen, and dropt into the Ears eafes their Pain; that of a Bull is sharper and stronger than of an Ox or Cow; and mix'd with Honey is a good Vulnerary, and cures almost all Diseases of the Eyes, if curable; there is no better Eye-Salve than it is: By itself it is a good Colliny against Blood-shot, Clouds, Films, Haws, or Pearls in the Eyes; mix'd with Myrrh and Aloes, it cures Ulcers of the Yard and other Parts, together with the Piles; mix'd with Nitre, it removes Scurf and Leprose: The Dung is temperate, difby provoking to Urine; the volatile Salt and but is only of a larger Kind.

which chew the Cud, and cleave the Hoof; Spirit, are powerful Openers of Obstructions. They find fometimes in the Stomach of an Ox or Cow, a Sort of large Ball like a small Apple, of a round Figure, a little flattish, having usually towards the Middle, a round Hole, wherein one may put one little Finger; it is of a reddish grey Colour: This Ball is made of the Hair which the Ox or Cow licks off her felf, and which in Procels of Time flick one upon another till they are collected into a Mais; it is reckon'd proper to stop the Hemorrhoids and other Fluxes: The Dose being from half a Scruple to half a Dram, powder'd and taken inwardly; it is likewife us'd externally, like Spunge, to deterge and dry up Wounds.

There is another Kind of this Creature, call'd a Bison, which is but a wild Cow, Bull or Ox, breeding in Scythia, Moscovy and Scotland; but those in Scotland are white; it is call'd Vacca Paonica in Latin, in Greek, Bison; they differ nothing from the common Cow or Ox, fave that their Mane is like a Lyons; and they have a Beard under their Chin, being much larger than those which are common with us: Those in Scotland are of a lesser Kind, and white, where they were once in vast Numbers, but are now mostly destroy'd: Their Flesh, and all their other Parts, were equal in Goodnels with the common Sort before

treated of.

To the Bison we will add the Urus, call'd in English, the Vre-Ox, or Cow, but unknown to the Greeks. These also are a Kind of wild Oxen or Cows, differing little or nothing from our common Ox or Bull, fave in their Magnitude or Stature, coming near to the Bigness of an Elephant; when grown up it is a wild untameable Creature, nor can it be made sociable like ours, unless they be taken when Calves, and brought up young. They breed in the Woods of Hercynia, in the Pyrenean Mountains, in Prussia, &c. where they are faid to be so wild, cruel, and untameable, as they neither fear or spare Man or Beaft; their Largeness and Strength is incredible: Their Goodness for Food, and Vertue of their Flesh, Milk, Hides, Horns, and other Parts, as also the Flesh of their cuffive, anodine, &c. The Urine drunk Calves, differ nothing from our tame ones, cures the worst Kind of Jaundice and Dropsie, nor is their Beef any ways interior to ours, Calves, differ nothing from our tame ones, 11. Of II. Of the Ram or Sheep.

Pomet. SHeep are one of the most necesfary Animals for the Use of Mankind, and therefore bred in most Nations of the World, tho' the Difference of Climates makes some Difference in their Colour and Shape. The Sheep in Greece are less than the Sheep of Egypt, and the Oves Pyrrbica were like Boves, by reason of their exceeding Largeness, their Name being deriv'd from Pyrrbus their Master. The Sheep of Chius are very small, and the Rams of India not much bigger than our Lambs. In Spain their best Sheep have black Fleeces, and all their Sheep bear exceeding fine Wool; near the Alps they are grey, or Honey coour'd; in Asia, Betica, and Erythrea, red like Foxes; at Canusium they are yellow, or Lyon Tawny; and so also at Tarentium; in Istria and Liburnia the Sheep bear Wool so coarse, hat it may rather be accounted Hair han Wool. The Sheep of Apulia gave the Name to Lana Italica for excellent Wool; et it was short and coarse, good for nothing ut to make Garments to ride in, and to wear 1 rainy Weather. The French Sheep are or of the best Kind, but the Flemish have fine, foft, curled Wool; so also have the heep of Miletum, Attica, and Gadilonea, eaching to America. Those in Pontus and appadocia coarser. In Scotland the Sheep ear good Wool; but that of the English heep excels, in Softness and Fineness, all ther Wool in the World, except the Spanish Vool; and yet the Spaniards had the Sheep hich bears that superfine Wool first from ngland. In Ethiopia the Sheep bear no fool at all, but Hair like Camels Hair. In neynis the Sheep are red, and have four orns. In some Part of India both Sheep d Goats are as big as Affes, and bring ur Lambs at a Time, never less than three. he Arabian Sheep are in Size, Figure and plour, like the English Sheep; but there are o Sorts amongst them that are distinguish'd the Length and Breadth of their Tails, ing so extravagant both ways, that the eep cannot move from one Place to another thout Assistance.

are two Kinds of wild Sheep, the Musmon and the Subus; the Mulmon is not unlike a common Sheep, except in its Wool, which feems to be rather the Hair of a Goat, being the fame which the Ancients call'd Oves Umbric.e, the Umbrian Sheep: Some will have this to be a Kind of wild Goat, which it does not so much resemble, for it wants the Goat's Beard, and its Horns are absolutely like Rams Horns: They are bred in Corfica, Sara dinia and Spain; and are faid to be got between a Ram and a She Goat, as the Cinirus is between a He Goat and an Ewe. The Form of the Musmon is much like a Ram; his Horns grow from his Head like a Ram's, and bend backwards almost to his Ears; it is exceeding swift of Foot, not much inferior to the swiftest Beast; the Skins of them are fo thick, that in the Place where they are bred, they are us'd for Breast-Plates: Those Sheep live on the Mountains, and are admirable Mear, but are scarcely found any where now, but in Sardinia.

The Subus is a Kind of wild, or rather Water Sheep, of an amphibious Nature, living both on the Land, and in the Water; he eats Fish, which slock about him in great Abundance; but tarries no longer in the Water, than 'till his Belly is sull: This Sheep is of a bright yellow Colour, like those of Grete, but its Wool is not so rough; it has two large Horns upon its Forehead, swims well, and is very greedy after Blood. This much of the wild Kind, and such as are not common, we shall now return to those that are so.

The Sheep is the mildest and most inoffenfive of all the Creatures upon Earth, of which there is no Part but what is profitable and useful to Mankind: The Elesh, Blood, and Milk, are for Food; the Skin and Wool both together, and a-part, for Cloathing: The Bones for making of Tests or Coppels to melt Gold in; the Guts for Instruments of Mufick and Bow-Strings; the Horns and Hoofs for Trumpers, and other little Toys, besides their physical Use, and the Dung for Manuring of Land: Their Flesh is the universal Food of Europe; and in some Countries they make Butter and Cheese of their Milk. As to their Wool, they are very profitable in all Nations, being shorn in the cold Countries once a Year; but in the hotter Besides the common Sort of Sheep, there Countries twice a Year; in some Places

old Custom, they pull the Wool from the Sheep's Back, whence the Name Vellus, a Fleece, is suppos'd to come à Vellendo, from

Animal, I shall now proceed to shew its medicinal Uses: From the Horns is drawn a volatile Oil, Spirit and Salt, any of which are efficacious against Diseases of the Head, Brain and Nerves; as Epilepsies, hysterical Fits, Vapours, &c. from the Hoofs and Urine you may extract the same Preparations. The Dung is a prevalent Medicine against the Jaundice, Dropsie, Cholick, Pleurisie, Spleen, Stone, Gravel, Scurvy, &c. taken either in Powder, Tincture or Decoction; the Dung made into a Cataplasm with Camphire, Sal Armoniack, and a little Wine, opens, digests, attenuates, and eases Pain: It is excellent in Abscesses about the Ears and other Emunctories, Swellings in Womens Breafts, Pain of the Spleen and Gout.

The Skin, besides its Uses for Leather, Parchment, Size, &c. has some medicinal Uses of considerable Moment: A Lamb-Skin newly taken off and applied hot, is an admirable Thing to give Ease in Pain, ftrengthen any weak Part, and cure a Bruise newly taken; fo a strong Broth of it made in Claret, by Bathing in it as hot as can be endured, will affwage Tumours, strengthen weak Joynts and Limbs, and restore a Wasting of the Parts, from an Atrophy or Consumption; and some say it is powerful enough

to remove a Diabetes.

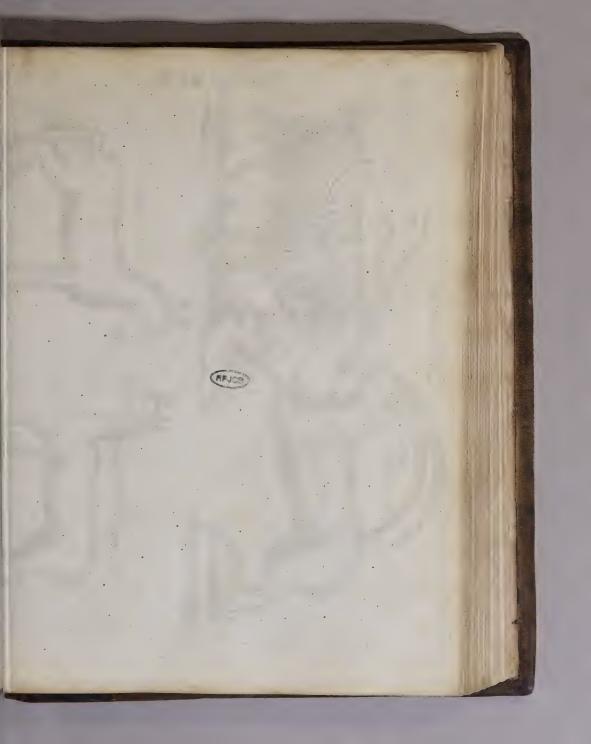
The Tallow and Cawl serves for making Balfams, Oyntments, and Emplaisters, and the Marrow is good against the Colick, Gripings of the Guts and Exulcerations of the same. The Oesipus is only the Sweat of the Sheep condensed upon the Wool, and making it greafy; it is emollient, discutient and anodine, being useful against Contusions, Strains and Weakness of the Joynts and Limbs. The Guts being cleans'd, dry'd and twifted, serve for Strings to Bows and Instruments of Musick; a Jelly made of Sheeps Feet, is prevalent in Consumptions, Fluxes of the Bowels, Exulcerations, and the like.

There is a great Trade carry'd on throughout the World with Wool; and amongst the reft, Persian Wool is in great Vogue; the best

they are never shorn; but according to the of which is the softest, and least full of long Hairs; but Spanish Wool is reckon'd the finest and more saleable Commodity, of which there are these several Sorts that are esteem'd the most preserable. Vigognia and Having thus far given a Description of this Segovia Wool the finest Sort, the small Segovia and Segewen Segovia of Castille, &c. The ordinary Sort of Navarre and Arragon; the finest white Wool of Sevil, Mallaga, and Portugal. Besides these, there are the German Wools of Rostock, Stralfunt, and Anclam, Newmark, Weydacker, Stetin, Thoorn, Dantzick, Prussia, Lunenburg, Bremen : The Wool that is produced in Berry, and the adjacent Parts of France, is the longest, and generally the coarlest in Europe.

12. Of the Hart or Deer.

THE Deer is an Animal so well known every where, that it wou'd be needless to give a Description of him; I shall only inform you that there are three Kinds understood by this general Word Deer, viz. First, The Hart and Hind, which are called in England, the Red Deer. 2dly, The Fallow Deer; and, 3dly, The Roe-Buck and Doe; all which are Animals of very long Lives, as may be feen by a Stag's Head kept at the Castle of Amboife, of a prodigious Length, which testifies the extream Age of the Creature that bore it. Some French Historians relate, that Charles the Sixth kill'd a Deer in the Forest of Senlis, which had a golden Collar about his Neck, wherein were engraved these Words, Hoc Cafar me donavit; Cafar gave me this. This aniwers to a Story that passes in England, where it is reported, that King James the First, in Hunting, took a Hart with a Collar, having an Inscription with Julius Cafar's Name thereon. But as to the Longevity of these Creatures, ancient Authors have been abundantly more profuse in their Allowances than the Moderns; for it is affirm'd by some of the former, as a possitive Truth, that Agathocles, King of Sicily, Hunting in Calabria, took a Hart with a Collar upon him, on which was written Diomedes Diana, which was suppos'd to be done before the Siege of Troy, which was a thousand Years before his Time





The Red and Fallow Deer are generally found in all Countries of Europe, and several Parts of Asia, Africa and America, in Parks, Woods or Forests, feeding upon Grass, Hay, Herbs, and Leaves of Shrubs and Trees: The Roebuck is bred chiefly in America, Syria, Arabia, Greece, and several Parts of Africa, in Lycia, Italy, Spain, the Alps, and Germany. It is observable that the Lycian Roes, never go over the Syrian Mountains; yet their Delight is wholly among Hills and Rocks.

As to the medicinal Uses of the Parts of these Animals, they are in the Main one and the same; and therefore in treating of them, we shall do it generally for all at once. The Horns are the principal Parts in Use, whereof there are many Remedies prepar'd; as the Raspings, the calcin'd Powder, the Gelly of Harrs-horn, the Oil, Spirit and volatile Salt; all or most of which are great Cordials, and good against fainting and swooning Fits, Heart-burnings, Convultions, falling Sickness, hysterical Fits, &c. provoke Swear, stop Fluxes, kill Worms, and comfort both the Heart and Brain; the Hoofs have the same Virtues with the Horns, but are much more powerful Cephalicks; the Spirit or volatile Salt or Oil, being excellent in Epilepfies, and Fits of the Mother. The Bone, or rather Cartilage, that is found in the Heart of an old Deer, is faid to be cordial, and is brought into the Confection of Hyacinth; it revives the Spirits, expels Melancholy, and helps the Palpitation of the Heart; this Bone is suppos'd to be the Effect of a Polypus.

The Bones of this Creature, diftill'd in a Retort, yield a volatile Spirit, Salt and Oil, but neither so fine, or so much in Quantity as arises from the Horn: The Fat or Suet is equal to the best Emollient; it lenisses and solutions Callosities, Contractions, schirrous and concerous Substances: The Marrow being purised, and prepared for keeping, has the same Virtues, and may be used the same Way. The Powder or Filings of the Pizzle, given in Wine, is diuretick, and very good against Colick and Dysentery; some have affirm'd it provokes to Venery. The Skin or Hide of the Hart, Hind, Buck or Doe, are of great Use when dres'd for Garments, Gloves, Stockings, Bags, Shoes, Boots, and

The Red and Fallow Deer are generally und in all Countries of Europe, and feveral trusts of Afia, Africa and America, in Parks, lerbs, and Leaves of Shrubs and Trees: The webuch is bred chiefly in America, Syria, A-valued.

Cervus, or the Deer, is a large fourfooted Animal with Horns, that is very lively, sprightly and agile, living a long Time, and bearing a great Branch of Horns that serve him for his Defence, and drop off in the Spring Time, instead of which new Ones pur forth. The Female, Hind or Doe, is call'd Cerva in Latin; the young One Hinnulus, or the Fawn; the Whole abounds with Abundance of volatile Salt and Oil. The Velvet Horns are so soft, during the first Month, that they may eafily be beat off; and being made into a Jelly, are us'd to haften the Birth. The Raipings of Harts-horn are proper for Peifans, Jelly, &c. The Bone found in the Heart of a Stag, is sometimes half as long as the little Finger, broad as the Nail, flat and thin, usually triangular and white: Chuse the least rather than the biggest, because the Bone in an Ox's Heart is often impos'd upon you for that; it is almost cartilaginous when taken out of the Animal, but hardens into a bony Substance afterwards. The Bone in the Deer's Heel is proper in the Bloody Flux, being given in Powder to a Dram: The Marrow is yellowish, inclining to white, and may be us'd externally in Rheumatisms, Sciatica's, &c. The Suet is likewise profitable for the same Ends, being emollient, strengthening to the Nerves, and resolutive.

13. Of the Goat.

THE Goat is an Animal univerfally known in France, Italy, Pomes, Cyprus, Candia, and other Parts.

The chief Commodity we fell, which comes from these Goats, is a Kind of Fat or Grease, which is found sticking to the Beards of these Animals, especially such of 'em as seed upon nothing but the Leaves of a certain Shrub, very common in the hot Countries, which the Botanists call Cistus Ledum, or that Kind of it which produces the Labdanum; the Leaves are long and narrow, rough, very Vol. II.

gluey, of a dark Green, that continues all to keep it for Use: They usually prepare the

The Inhabitants of the Country gather this Grease with wooden Instruments, like Combs, and then make it up, being commonly full of Hair and other Filth, into a Mass or Cakes of different Size, and Weight, which is what is call'd Labdanum, or Ladanum, that is natural, or in the Beard: but fince the Islanders understood that there was a sweet pleasant Smell in this greasy Matter, and that when it was well purified, it wou'd be considerably valued; they have taken Care to melt it, and strain it thro' Cloths, as well to take out the Drofs, as to give it a more fragrant Smell: Having thus refin'd it, they wrap it up in fine thin Bladders, as we have it brought us, and to which we give the Name of Liquid Labdanum, or Black Ballam. This Fat thus prepared, is much us'd in England; as for what is us'd in France it is scarce worth speaking of; the Perfumers being the only People that deal in in either because of its Dearness, or because it is but little known. The worst of the liquid Labdanum is melted into Rolls, which they twist as they do Wax Candles, and this they call Twisted Labdanum.

Chule the bearded Labdanum, the most fragrant and cleanest you can get: The liquid Kind ought to be of a folid Confiftence, of a fine Jet Black, sweet and pleasant to the Smell, inclining to that of Ambergrise, which has given Occasion to some Merchants to sell liquid Labdanum for black Ambergrise. As to the twisted Sort, it ought to be rejected as being full of nothing but Dirt and Sand. Besides these different Sorts of Labdanum, we have prepared Goat's Blood, which is us'd in Medicine, and that it may be endow'd with the excellent Qualities, which the Ancients attributed to it, the Beast must be fed for some Time with aromatical Herbs, and fuch as are proper to break the Stone, and must not be above four or five Years old. Having cut its Throat, you are to referve only the middle or fecond Blood, rejecting what comes out first and last. This you are to put into an earthen Vessel cover'd with a clean Cloth, to hinder Duft or Dirt from falling into it, and then expose it to the Sun, or fet it in the Shade to dry; and when it is well dry'd, it ought to be put into a Glass Vial

to keep it for Use: They usually prepare the Blood of a Goat in the Month of Fuly, because then the Herbs on which they seed, are supposed to have their full Virtues. Van Helmont affirms, that if you hang the Goat by the Horns, and bending the hind Feet to the Sides of his Head, in this Posture cause his Testicles to be cut out, and dry the Blood that runs from the Wound, it will become as hard as Glass, and difficult to be beat into Powder, and quite different from that taken from the Throat. He moreover afferts, that one Dram of this taken will infallibly ease and cute the Pleurisy without Blood-letting.

We bring from Auvergne near Lyons and Nevers a great deal of Goats Suet; it being not only of some small Use in Physick, especially that of the He Goat, but is also us'd to many different Purposes; it ought to be dry, of a clear White within and without; and take care it be not mix'd with Mutton Suet, which is not easy to distinguish; therefore do not deal with Merchants you cannot rrust: As to the Skin it is of vast Use, as to carry Wine, Oil, Turpentine, and other Liquors in. The Eastern People use the Skins of these Creatures for little Boats to cross a River with, and to carry their Goods upon the Euphrates, and other Rivers in the East-Indies.

Besides these Uses, the People of the Levant dress these Goats Skins, and dye 'em of a red Colour, by the Help of Stick-Lac, and other Druggs, and then it becomes what we call Turkey-Leather, and have such considerable Trade in, because of the great Use made of it in France, upon several Occasions. The true Turkey-Leather shou'd be of a beautiful scarler Colour, and a fine Grain. We make this Kind of Leather at Marseiles and Paris; but it is not of fo good a Colour, and will not last so long. As to the black Leather, the best comes from Barbary, in that it is of a finer Black, and better Grain. They make this also at Rouen, of what they call green or raw Skins; but it is neither fo good nor so beautiful as those made in Barbary.

14. Of the Wild Goat.

THE Wild Goat is an Animal little known in France, and very common in Switzerland; upon which Account I thought it would not be amil's to re- the Blood of the common Goat; especially it. "Wolves will not live in the Isle of " Crete, for which Reason they leave all et their Cattle in the open Pastures without " Fear, and especially their Sheep and Lambs. "When the Inhabitants of the Country " take the Fawns of the wild Goats, of which there are great Plenty, they bring " 'em up with the domestick Goats, and so they

" become the Property of those who tame " them; but the wild Ones are theirs who " can take or kill them: They do not ex-" ceed the common Goat in Bulk, but they " have no less Flesh upon 'em than a large " Deer, and they are cover'd with the " same Sort of Hair, short and thick, not " like the Goats. We have some of 'em " also on our Mountains, and especially on " Precipices that are difficult of Accels; and " one wou'd wonder to see such a little Ani-" mal carry such a Weight of Horns on his " Head. There are two Sorts of these " Goats, as I have made appear from the " different Horns brought from Cyprus and " Crete, which I presented to Monsieur Le Bail-" ly of Lyons. There are some Peasants on the " Tops of the highest Mountains of Crete, "that are such Archers, especially about " the Mountains of Sphachia and Madara, " that they can wound with their Arrows " five and twenty Paces diftant; and in or-" der to come at them, they take the She " Goats which they have tam'd, and brought " up from young ones, and tye them in some " Passage of the Mountains where the He " Goats use to go and ly in wait on the con-" trary Side to the Wind, for fear the wild Goat, who is so exquisite of Smell, as to " scent you a hundred Paces, shou'd discover " them; the Male finding the She Goat on "the Way, stops, and then the Peasant " draws his Bow; and if by Chance he " wounds him but flightly, or that the Ar-" row (ticks in his Body, he knows how to

" cure himself; for he runs to the Dittanny,

" which is an Herb that grows upon the

" Rocks in Crete, and browles upon it, by

" which Means he heals himself". The

aforesaid, and use for Dissolving the Stone,

late what Father Belon of Mans has writ of when they feed on Saxifrage, or other Herbs of like Qualities.

Caper vel Capra, Hircus vel Hirca, the He or She Goat are Lemery. both the Tame and the Wild,

one or other of which are Inhabitants of most Parts of the World; besides which are the Rock Goat and the Orrx, or the African wild Goat; but I shall confine myself here to the wild and tame Goat, that feed upon barren Mountains, and wast Places, and eat almost all Sorts of green Things whatsoever; so that they live and grow fat, upon what any other living Creature wou'd be starv'd with: Their Increase is prodigious; for they fometimes bring forth four, and fometimes five at a Time; and the Ewe Kinds will have young ones before they are a Year old: The Profit of keeping Goats, which is only proper for barren and hilly Countries, besides the Advantage of keeping the Family, arises from their Hides and Tallow; their Hides being the same Skins which in Turkey they make Turkey Leather of; and in Spain, Spanish Leather and Cordivant, so call'd from Corduba: These Skins are so valuable, that in some Countries they go in Tale for Money, as the Cocao Nuts do in others.

Of what Use the Leather is, daily Observation proves to us; of the best tann'd Leather, which is the Turkey and Spanish, are made Covers for Chairs, also Shoes and Boots for the Gentry and better Sort of People; of Cordivant and Kid Skins, are made vast Numbers of Gloves of all Sorts, of the Vellum may be made Covers for Books, Drum-Heads, Deeds, Maps, Books, and other Writings: This is the best Sort of Leather for universal Use, both for Strength, Substance and Goodness, next to Neats Leather: The Horns and Hoofs of these Creatures abound with a great deal of volatile Salt, Oil and Spirit, which are equally useful with the Preparation from Harts-horn. The Powder of the dry'd Testicles is boasted by some to be no ways inferior to Castor; and being given to a Dram cures Fits of the Mother to a Miracle. A volatile Oil drawn Switzers hunt these Animals both for Eating from the Brain of the Goat, and well rectiand for their Blood, which they prepare as fied, is compar'd with Goddard's Drops, that made such a Noise in the Reign of King for as much as it has greater Virtue than Charles the Second, and may very likely an-

more than an exalted volatile Oil, as this is, and so may be rank'd in the same Class.

15. Of the Shamoy or Rock Goat.

TPon our Mountains, and especially on the Pyrenees, we meet with a Kind of wild Goat, call'd, the Shamoy, or Rock Goat. There is a great Trade carry'd on with these Skins, by which they convey Oil, Wine, and other Liquids, out of the mountainous Countries, and of which they make several other Uses; for these Shamoy Skins being dress'd are converted into Gloves, Stockings, Drawers, Breeches, Wast-coats, Petricoats, Caps, &c. because they may be wash'd as Linnen is, and be dyed into what curious Colour you please; as Orange, Lemon, Buff, Black, Green, Red, Blue, or the like.

This Shamoy is a very wild Animal, that is not to be met withal, but on the very Heights of the Rocks and Mountains; for which Reason the Latins call him Rupicapra, or the Rock Goat, and he mostly feeds upon the Herb we call Leopard's Bane. Sometimes we find in the Bladder of these Animals a Stone of different Colours and Sizes, which is call'd German Bezoar, because the Germans esteem this not inferior in Vertue to the Ori-

ental Bezoar.

The Shamoy is of the Size of the common Goat; his Horns are small, black, bent forwards, and very sharp; the Tail not above three Inches long; they have large Eyes, and never step but on the Tips of their Toes; they are coated like a Faun, and have a Streak running all along the Back.

Rupicapra, or the Rock Goat, is a Lemery, wild Goat, no bigger than the common Kind, which frequents the Rocks and high Hills; as the Alps, Pyrenees, &c. The Horns of this Animal are oddly turn'd, for they rife upright first, and then wind forward like a Hook : They feed upon the Plants that grow on the Sands and Tops of the Rocks; the Chief of which is the Doronicum Romanum: The Male is call'd, in Latin, Dama, being a very thy and timorous Creature; both the He and She afford Abundance of volatile Salt and Oil. The into Shagreen, because the last is neither so

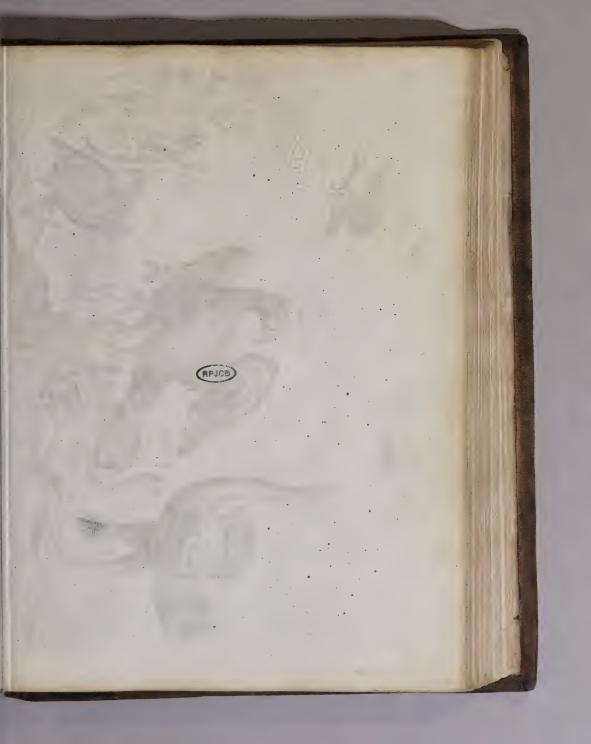
fwer as well, fince that Medicine was no Liver is proper to ftop Fluxes of the Belly : their Blood allays Vertigo's : The Fat is excellent for Ulcers of the Lungs and Phthificks, being taken in Milk; the Gall dries up, and wasts away Films and Cataracts in the Eyes.

16. Of the Shagreen.

CHagrin in the French, or what is call'd Shagreen in English, is the Pomet. Skin of an Animal very common in Turkey and Poland, which the Turks and Poles make use of to carry their Baggage; as in other Parts they do Mules, Horses, &c. When this Animal is dead they take the hinder Part of his Skin and hang it in the Air, after having strewed it, when raw, with Mustard-Seed: They leave 'em thus expos'd to the Weather several Days, then take 'em in and tan them; and when they are dres'd export them. This Skin is very hard when dry, and foft when steep'd in Water. It is pretended, and I have been affured, that that which makes this Skin so hard, is because this Animal fits down and refts upon his Buttocks. They bring two Sorts of Shagreen from Turkey; to wit, the grey or alh-colour'd, which is the best, and the white or

salted Shagreen.

Chuse your Shagreen Skins of right Turkey, or Constantinople, as being much better than those of Algiers and Tripoli. There come some likewise from Poland, which you ought not to meddle with, because they are too dry, and will not take in the Alum when they come to be dy'd: Likewise chuse the largest, fairest, and evenest Skins, with a little round Grain well form'd, with as few Places altogether smooth as possible: These of a large and uneven Grain, being less saleable, tho' no less fit for Use. The Use of this Shagreen is very universal for all Sorts of Pocket Utenfils, Watch-Cases, travelling Furniture, and the like. They may dye this Skin of what Colour they please; but the most common are Black, Green and Red; the most beautiful and dearest is the red Colour, because of the Vermillion and Carmine with which it is dyed. You may know the true Shagreen from the Spanish Leather made





rough nor so hard; but will wear smooth, which the True will not.

Besides the several Parts of Quadrupeds already describ'd, we sell Bears-Grease and Tallow, which are brought from the Mountains of Switzerland, Savoy, and Canada; or new melted, greyish, gluey, and of a strong ill Smell, of a middle Consistence, that is to fay, betwixt hard and fost; and meddle not with that which is white and hard, being mix'd with Suet. This Fat, or Greafe, is a Sovereign Remedy for curing cold rheumatick Humours; it is also much valued for easing Pains of the Gout, by rubbing the afflicted Part, and to make the Hair grow; it being esteem'd admirable against Baldness, especially when incorporated with Bees in Powder and Nut Oil. As for the Bears Tallow, there is but very little of it brought into France, it being but little used, and that only by those who will not come up to the Price of the Greafe.

We fell likewise the Grease of the Badger, as very fovereign in nephritick Cases, and Sciatica Pains; so we have also Pencils made of the Badger's Hair for the Painters Use. This Creature is about as big as a Fox, but shorter and thicker; the Skin is hard, rough, and has rugged harsh Hair upon it, of an intermingled grifled Colour, fometimes whiter, sometimes blacker; the Back almost black, the Belly almost white, the Teeth very fharp, the Tail short and hairy, of different Colours, long snouted, has short Legs before, yet shorter behind, little Ears, small Eyes, sharp Claws, and is a Beast commonly very far, and of a strong stinking Smell; the whole Length of him, from the Snout to the Tip of the Tail, is not above two Foot and a Half.

The Liver and Bowels of the Wolf dry'd, are recommended for the Cure of all Difeases arising from the Liver and Bowels, particularly the Colick. We also sell the Grease and dried Lungs of the Fox; the last are esteem'd excellent against Coughs, Asthma's, Phthisicks, Wheesings, Hoarsenels, Shortnels of Breathing, and all other Diseases of the Lungs: The Grease is admirable for the Ear-Ach, and to rub the Limbs of such Perfons as are subject to Convulsions, Palsies, Tremblings, and Weakness in any Part.

There are the Cods of a little Creature brought us, call'd, in the American Islands, a Musk Rat, because of its Resemblance to our common Rats, except that the West-Indian are much larger: They sell these Cods for Musk Cods, to People that do not understand them; but it is an easie Matter to find it the Grease, to be good, ought to be fresh, out, since these are no longer or thicker than a Child's little Finger. The Musk Rats, according to Father Du Tartre, have the same Shape with ours, but are so much bigger, that one will out-weigh four of ours: The Hair upon the Belly is white, and that on the Back, black; they smell so strong of Musk, that they perfume all the Air about them, as they go. The Inhabitants of Mar-tinigo eat 'em; but they are forc'd, after they have skin'd them, to leave them one Night in the Air, and then throw away the first Water they are boil'd in, to take off the too strong Scent of the Musk. These Rats are natural to the Island; and they had none of the common Kind, 'till of late that they were brought thither by the Ships that trade

17. Of the Ostrich.

'HE Offrich is a Bird that has fhort Wings, and is much valu- Pomer. ed for its Feathers, which serve as Ornaments for Hats, Caps, Beds, and Canopies of State. The Ostriches are taken in Africa, and are very common in Peru, where they march in Flocks like Cattle: The Natives eat their Flesh, and their Eggs are good Meat, tho' hard of Digestion: This is the largest of all Birds, being seven Foot high, and sometimes more; his Head is small, depress'd, or flat crown'd, and almost like a Goose's; the Bill is compress'd, and being compar'd to the Body very small, of a triangular Figure, Horn Colour, and black Tip, great Eyes, with a Hazel colour'd Iris; the Head and Neck, almost as tar as the Breast, are bare of Feathers, as also the Thighs; the Head and Neck cover'd with a certain Down, or thin set Hairs: The Sides under the Wings and Thighs are absolutely bare; the Wings are small, and alrogether useless for flying, design'd only to will the Bird in running. The Feathers of the Bara,

in the Cock, are Coal black; in the Hen and Gravel, to help'em to grind their Food, only dusky, and fo foft that they refemble a Kind of Wool; the Wing-Feathers beneath, are of the same Colour with those in the Back : but above, in their upper Part, they are purely white: The Tail is thick, bushy and round, not as in other Birds, spread out in Breadth. The Feathers in the Cock being whitish, in the Hen duskish; its Neck and Legs are very long; it wants the back Toes, and has but two others; the one Toe is five Inches and a half, and the other eight Inches long, cover'd with great dif-joynted annulary Scales; it lays very large Eggs as big as a Ball of four or five Inches Diameter, and that has Meat enough in it to ferve feven or eight People, contain'd in a hard ftrong Shell, which they cover in the Sands, and forfake never taking any more Care of 'em, but leave them to be hatch'd by the Heat of the

They have diffected several Ostriches in the Academy of Sciences; the largest whereof was seven Foot and an Half high from the Ground to the Top of his Head. The Eve is oval like a Man's, having large Eyebrows; and the upper Eye-lid is moveable contrary to the Generality of Birds, with an Eye-lid within, as a great many Brutes have; the Bill is short and pointed; the Tongue is small and adhering, as that of Fishes; the any thing you offer it. The Flesh is rec-Thighs large, fleshy, and without Feathers, cover'd with a white Skin, a little reddish; the Legs are cover'd with great Scales; the Feet cleft, having only two Toes, with large Claws. The Offrich carries the Quill exactly in the Middle of the Feather, upon which Account the Egyptians represented Juflice by it. When we come to examine the Infide of this Creature, we meet with five Diaphragms or Partitions, which divide the Trunk into five Parts; four of which are placed straight up and down; and a fifth is situated a-cross, or thwart the Ventricles, which was found full of Herbs, Hay, Barley, Beans, Bones and Stones, whereof he had one of the Bigness of a Hen's Egg: They found in one seventy Pieces of Money; the most Part of which was wasted and gone, perhaps by their mutual Attrition, one against the other, rather than by Corrosion: For it is observable, that the Ostriches swallow Iron for the same End that Birds do Pebbles

and not to nourish 'em, or to digest it, as the Ancients believed.

The Flesh is fat, and said to cause an Appetite, and reftore in Consumptions. The Ventricle, or Skin of the Stomach, strengthens and affifts Digeftion: the Fat is hotter than Goose Grease, and may be us'd with great Advantage to diffolve hard Swellings, relax contracted Nerves, and ease Pain. Besides the African Ostrich, already describ'd, there are three other Sorts, to wit, the American, the Emeu, or Cassowary, and the Dode.

The American Ostrich is somewhat less than the former; their Legs are long, and they have three Toes on each Foot, one of which stands backwards; its Head is like that of a Goole, the Neck twenty-four Inches long, which they carry bended like a Swan or Stork; the Bill is compres'd, or flat, but not very broad, two Inches and a Half long, the Wings small, and not fit for flying, which they only affift themselves withal in Running, which they do with that Speed, that a Grey-Hound can scarcely overtake them; the whole Body is cover'd with grey Feathers, which are longer and more beautiful on the Back; its Tail is like that of the former, but stretch'd forth longways: it feeds on Fruit and Flesh, but will swallow kon'd among the Spaniards as good Food.

The Emeu, or Callowary Offrich, has a horny Crown on the Top of its Head, near three Inches high, of a dusky yellow Colour, which is reported to fall off at Moulting Time, and to grow again with the new Feathers; the Head and Neck are bare, or only cover'd with a hairy Down; the Skin being of a purplish blue Colour: In the fore-Part of the Neck hang down two membras nous Wattles, or Lobes of Flesh, two Inches long, of a Vermillion red; as is also the lower Part of the Back-side of the Neck: Its Bill is of a moderate Thickness, and streight, and four or five Inches in Length; the Neck is about thirteen Inches long; the Length of its Body, from Breast to Rump, three Foot; the Breadth two Foot over: the Thighs, with the Legs to the Feet, is 17 Inches long; the Legs are thick and ftrong, and almost five Inches about, cover'd as it were with broad Scales; it has thick

hard

hard Feet, divided into three thick Toes, all standing forwards, and wanting a back Toe, having very great Claws, almost two Inches long: It has some Rudiments of Wings, confifting only of five naked Shafts of Feathers, somewhat like Porcupines Quills, which commonly lye hid under the Feathers, covering the Sides, but it has no Tail; the Feathers covering the whole Body are all double; two coming out of the same Pipe or Stem, the upper somewhat the thicker, or groffer, the lower the finer and more delicate; it is said to want a Tongue, because the Tongue cleaves to the Mouth as in Fishes; it feeds upon Fruits, Flesh, Bread, Hens-Eggs, Oranges, and almost any thing that is offer'd it; its Eggs are great and fair; one being measur'd length-ways was fifteen Inches, and cross-ways twelve Inches, or more; of a greenish ash Colour, thick set with small

Protuberances of a deep Green. The Dode, call'd Gallus Gallinaceus, is said to be of a middle Size, between an Offrich and a Turkey, agreeing much with the African Oftrich, if you confider its Rump, Wings and Feathers; but in Regard of the Shortness of its Legs; it looks like a Pigmey among them; it has a great Head cover'd with a Membrane, resembling a Hood, great black Eyes, prominent fat Neck, a Bill extraordinary long and strong, not flat and broad, but thick and of a blueish white, sharp-pointed and crooked; its Body is fat and round, cover'd with soft grey Feathers, much like an Oftrich's; on each Side, inftead of hard Wings, Feathers, or Quills, it has fmall fost-feather'd Wings, of a yellowish ash Colour; and for a Tail, it has five small curl'd Feathers of the same Colour; it has yellow Legs, being about four Inches in Compals, and something more than four Inches in Length, cover'd with thick Scales; it has three fore Toes, and one back Toe, near an Inch and an half long, and its Claw above an Inch in Length; it is a flow paced stupid Bird, and easily taken. The Flesh, especially of the Breast, is fat, esculent, and has so much of it, that three or four of them will sometimes be enough for a hundred Men; but it is commonly falted, and stored up for Sea Provisions; it swallows Stones, and fuch like hard Substances, which shows it to be of the Ostrich Kind.

18. Of the Eagle.

THE Eagle is a large Bird of Prey, and the fierceft and Pomet, firongeft of that Kind, being scarce distinguishable from the Hawk, but only in Bignels, or from the Vulture, but by its long, black, crooked Bill; besides which its Legs are yellow, cover'd with Scales. This Bird is very well known in almost all the Parts of Europe, as well as other Parts of the World, of which there are several Sorts; as the golden Eagle, the black Eagle, the white tail'd Eagle, the Brasslian Eagle, the Sea Eagle, and the Vulturine.

The Flesh is hard, fibrous, and not fit for Meat or Phylick; the Brain is faid to cure the Epileply, the Testicles to procure Lust, and the Gall is the strongest of all Galls, and helps all the Diseases of the Eyes whatsoever; as Clouds, Mists, Films, Pearls, Blood-shot, Ulcers, &c. The Fume of the Dung is faid to bring forth the Fætus, and outwardly applied, ripens Tumours and Apostems. The Eagle is a very salacious Bird, yet lives to a very great Age: But of all the Parts of this Bird, there is nothing fold in the Shops, but a Kind of Stone that is found at the Entrance of the Holes where the Eagles build their Nests to preserve their Young from Lightnings, and other Injuries of the Weather. This Stone is brought us by the Pilgrims of St. Jame's in Galicia. The Eagle Stones, most esteem'd, are those which are flat, blackish, and that rattle well; that is to fay, which make a Noise when shak'd at your Ear, which can proceed from nothing else but some little Stone contain'd within it : great Virtues are affign'd to this Stone, especially to procure easie and safe Labour, and to prevent Miscarriages. Some write, that the Eagle hunts for this Stone to the very Indies, in order to hatch, or bring forth their young Ones.

19. Of the Vulture.

THE Vulture is a Bird of Prey that is much like an Eagle, and has so quick a Scent, that it will smell a dead

a dead Carkass many Miles: Many are of Head, the rest of it black, the lower Chap Opinion that he differs not in Kind from the Eagle, but only in some other Characteriflicks, as that the Head and Neck of the Vulture are for the most Part bare of Feathers, and are only cover'd with a short white Down: that a little under their Throats they have about a Hand's Breadth cover'd rather with Hairs, like those of a Calf, than Feathers; that the Craw hangs down like a Bag before the Stomach or Breaft; that the Bill being streight for two Inches, does then grow crooked: That among all rapacious Birds, none fly together in Flocks but the Vulture: And laftly, That the Infides of the Wings are cover'd with a foft Fleece of Down, which is proper only to the Vulture.

There are several Kinds of Vultures defcrib'd by Authors, as the Ash-colour'd, the Black, the Chefnut, the Hare Vulture, the Golden, the White, the Brasilian, and the Vulturine Eagle: The two First differ in nothing but their Colour: The Chesont colour'd is less than an Eagle, having the whole Plumage of its Body of the Chesnut Colour; the Feathers of the Crown are very short, if compard to Eagles, which is the Reason fome have thought them bald. The Hare Vulture is so call'd, from its Preying upon Hares: this is inferior in Magnitude, and has not a Breast so refulgent as the Golden Vulture; which has many Things in common with the Golden Eagle, but is every Way, or in all its Parts greater. The Brafilian Eagle is a rapacious Bird, of the Bignels of a Kite, having a long Tail, and Wings longer than it: The whole Plumage of the Body is black, with a little Tawny here and there mix'd; it is headed almost like a Turkey, having a wrinkled Skin; its Bill is long, hook'd at the End, and sharp, in the Middle whereof is one large Hole for the Nostrils, transversly situate; Eyes almost of a Ruby Colour, with a round black Pupil: Its Flesh stinks like Carrion, for it feeds chiefly upon dead Carcasses, is ill-look'd, always lean, and never satisfied.

The Vulturine Eagle, tho' call'd so by the Naturalists, has nothing of the Eagle in him; for its Shape is unusual; the Bill is streight almost towards the Middle, and towards the Point bent into a remarkable Hook, after the Manner of Vultures, white towards the

wholly white, the Iris of the Eye is not so fiery as in Eagles, but whitish, and the Pupilla black; the whole Head whitish or grey; the Neck half Way from the Head almost bald, set with a few white Feathers, and some small ones, like rough curl'd Hairs, higher than the rest of the Plumage, as if they were fine long Briftles; on the Back as it were a Kind of Hood, reaching to the Middle thereof, and ending in a sharp Peak, resembling a Triangle; the Colour of the whole Plumage of a dark Chesnut, inclining to black: The Fat is the only Thing belonging to the Vulture Kind that is fold in the Shops, and us'd to anoint withal in Palsies and other nervous Cases.

20. Of the Frigat.

HE Frigat is a Bird which the Indians call so, because of the Pomet, Swiftness of its Flight: The Body of this Bird is no bigger than a Pullet's, but its Stomach is very fleshy. All the Feathers of the Males are as black as Ravens; the Neck is pretty long, the Head small, with two great black Eyes, and the Sight more pierceing than the Eagles; the Bill is likewise pretty thick, and altogether black, about fix or feven Inches long, and streight to the End, where the upper Beak is crook'd like a Hook: The Claws are very short, being divided into two, as the Vulture's, but are entirely black; the Wings are fo prodigiously great, that it is seven or eight Foot from the Extremity of one Wing to the other, and that not without Reason, since his Wings are fometimes imploy'd to carry him above three hundred Leagues from Land. It is with a great deal of Trouble that this Bird can raise himself upon the Branches, but when he has once taken his Flight, he keeps his Wings extended almost without any Motion or Fatigue. If Sometimes the Weight of the Rain, or the Impetuofity of the Winds. force him, he mounts above the Clouds, and Soars beyond Sight in the middle Region of the Air; and when he is at the highest, he does not forget where about he is, but remembers the Place where the Dorado, or Gold-Fish, gives Chase to the flying Fish,

ning; not so as to strike upon the Water, for then it wou'd be difficult for him to rife again; but when he comes within twelve or fourteen Paces, he makes a large Turn, and lowering himself as it were insensibly, 'till he comes to skim the Waters where the Chace is given, in passing he takes the little Fish in its Flight along the Water, either with his Bill or his Talons, and fometimes both together.

The Male carries a great red Comb, like that of the Cock, not upon his Head, but under the Throat; and this Comb does not appear but in the old ones; the Females have none; but they have Feathers that are whiter, especially under the Belly. As the Herons in Europe have Hern-shaws, which are certain remote Corners of Woods to which they retire, as Places of Refuge, where they meet, rooft, preserve themselves and multiply; so these Birds, for a long Time, made a little Island, near Guadeloupa, their Habitation; in like Manner as the Rooks, have a Rookery, where all of that Species thereabout come to rooft at Nights, and build their Nests in the proper Season. This little Island was call'd, the Isle of Frigats, and bears the Name to this Day, tho' the Birds have left the Place; for in the Years 1643, and 1644, several People chas'd them so severely, that they were forc'd to a-

bandon the Isle. The Revernd Father Du Tertre, Apostolical Missionary in the Antilles, mov'd by the large Commendations given to the Oil drawn from these Creatures, by Means of two or three People, took more than one Hundred of 'em in less than two Hours Time: They furpriz'd the large ones upon the Branches, or in their Nests; and as they rise with a great deal of Trouble to take Wing, it was an easie Matter to beat 'em down with long Sticks. There was not one of those, says this Author, that flew away, but what were fick at the going off, so that they Herrings, half wasted: He believes they are become very common. There are bedischarg'd themselves in order to fly away with the more Ease. The Oil or Fat of we sell, and drive a considerable Trade in ; these Creatures is a sovereign Remedy for Sciatica Pains, and for all others, pro- Geese, and other Fowl, which are brought ceeding from a cold Cause; it is held in us from Gascoigny, Normandy, &c. as also

and then he throws himself down like Light- great Esteem throughout all the Indies, as a precious Medicine.

21. Of the Nests of certain Birds.

HE Nests which the People of Siam have brought into France for many Years, are nothing but the Excrement of certain Birds call'd King's Fishers, which the French call Aleyon, and the Latins Alcedo and Avis Posideonis, which are very common in France, especially in Normandy: These Birds frequent the Sea Coast, Rivers, and watery Places; they are of the Size of a Swallow, or a Quail; their Feathers and their Bills are of various Colours, as Green, Red, and Blue; and they have a great many several Names; as the Alcyon-Martin, the Martin-Fisher, the Martlet, the Bird of St. Martin, &c. These Animals usually build their Nefts among Reeds, or pon Rocks. The Indian Kings-Fishers, especially those about the Kingdom of Camba, when they are going to breed, throw out of their Bills a white Froth, with which they build a Nest the Bigness and Shape of a round Dish, where they lay their Eggs, and hatch their young Ones: These Nests are of a white Colour, tending to Yellow, and of a hard dry Confiftence; the Tafte being infipid, and almost like that of Vermicelli.

The Chinese are such Lovers of these Birds Nests, that it is almost incredible what Quantities are fent to Pequin, the Capital of China; they are usually valued at fifty Tabers the hundred, which is about fix hundred Livers, or fifty Pounds of our Money. They affign mighty Vertues to it, as that it nourishes extreamly, being boil'd in Water with a Fowl and Ginger; they reckon it very good for curing Pains at the Stomach, and for restoring those that are in a languishing Condition. These Nests were formerly little known; and it was believed that they were made of the Froth of the Sea; but fince the vomited two or three Fish a-piece as big as People of Siam have brought 'em us, they fides, other Parts belonging to Birds which as Quills, Penfils, and Down from the Swans, Vol. II.

the Swallow Stones, which are like little Stones taken out of Crey-fish, and are us'd to take out any Filth or Dirt that falls into the Eyes.

22. Of Cantharides.

Pomet: THE Cantharides are Flies which the Peafants about Paris bring as, and the Peafants about Paris bring as, and on the Blades of Corn; the Wings of these Flies are of a sine shining Green to look upon, because of their blue Colour mix'd with a Gold Yellow; but the Whole is venemous, and of a ferid Smell: They have a large Sort in Italy, but they are of no Use. Chuse such as are new, dry, and whole, without being crumbled to

Powder.

The Use of Cantharides, at this Day, is chiefly external; but there are some Countries where they are frequently given inwardly, by fuch as understand how to prevent their dangerous Effects otherwise: They are of very great Service to the Apothecary, not only for the Bliftering Plaister, that is always ready compounded by them, but to use fresh upon all Occasions where they are required. They use to kill the Cantharides with the hot Fumes of the sharpest Vinegar, enclosing them in an earthen Vessel, having its Mouth cover'd with a fine thin Cloth; afterwards they dry them, and putting them up in wooden Boxes, they keep them for the Space of two or three Years. These Cantharides, tho' rarely prescrib'd inwardly, are very efficacious in the Hands of a wife Phylician, who knows how to correct 'em, and make them specifical in a Gonorrhea, Suppression of Urine, Ulcers of the Bladder, Stone, Gravel. &c. They are most frequently adminifixed in a Tincture mix'd with Spirit of Wine, Camphire, &c. but to promote the Expulsion of Urine, nothing can be more fafe than the Anointing the Perinaum, or lower Part of the Belly, and the Region of the Navil, with the Oil, wherein Cantharides have been boil'd.

Some at this Time use all the Parts of the Cantbarides promiscuously; but the Head, Wings, and Legs are to be cast away: If a Blistering Plaister made of them be ap-

plied to a tender delicate Body, or upon most fine skin'd Women, it will cause a Strangury, or Scalding, and Heat of Urine, which is easily remedied by drinking of Milk, Barley-Water, or Emulsions of Almonds, or the cold Seeds. The volatile Salt of the Cambarides is one of the most powerful Diureticks, that is to be met with in the World; so that some Authors affirm it is able to break or dissolve the Stone; it is so pungent and biting, that it is apt to raise little Blisters upon the Tongue, when tasted, so that it is not to be taken alone, but in some smooth oily Substance, or other proper Vehicle; Dose from one Grain to three, being more gentle, and less hazardous than the Cambarides themselves.

23. Of Bees.

THE Bees, or Honey-Flies, are little Infects; the Nature and Pomet. Conduct of which is no less wonderful, than their Labour is necessary and useful, there they furnish us with Honey and Wax; both which are very confidentable. Commendiately the state of the state o

both which are very confiderable Commodities: But as I never kept Bees myfelf, I have been oblig'd to have Recourfe to a Friend, who communicated to me what, by many Years Experience, he had observ'd concerning them, that I might compare it with what had been said by others upon that Subject.

Some Naturalists will have it, that the Origin of Bees comes from the dead Lyon and the Ox; and that instead of Worms that usually breed in the Bodies of other Animals, the Bees generate in the Bodies of the Lyon and the Ox. This Extraction appears to me to be very wide of Truth, agreeable to a particular Experiment made by one, of what Virgil says in his fourth Bucolick, which he found altogether falle: The Fact is related in a little Tract supposed to be writh by a Country Parson, who says thus:

by a Country Parson, who says thus:

"Virgil appear'd to me to be an Author

of Solidity enough to ground a probable

Opinion upon, and whose Credit was suf
ficient to induce me to make a Tryal,

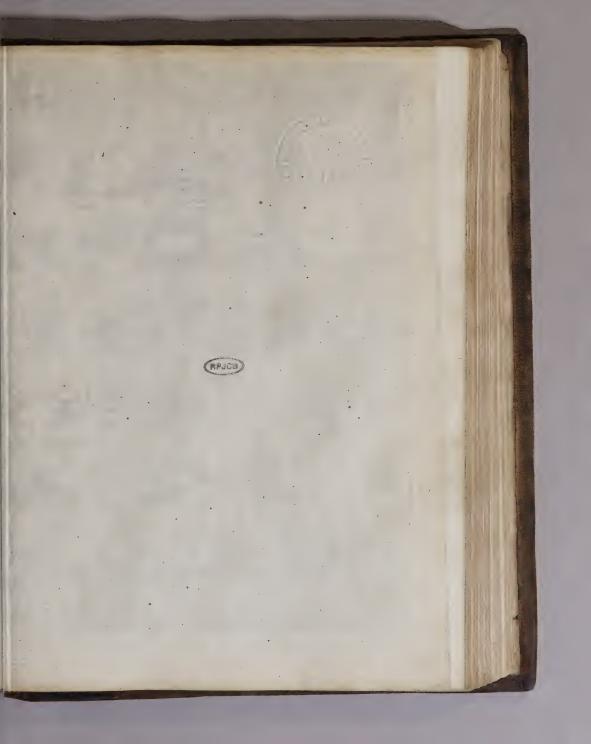
which I unsuckily did, and thought I had

poison'd the whole Village; for I caus'd to

be strangled a young Bull, Bina cornua

ferens, giving him a thousand Streaks with

"a Cudgel.





" a Cudgel, as he was dying, which was the End of October; if the Hive be in good " ing States, both by Sea and Land; he mar-" shals his Army in Battalia; he rewards his " Captains and Generals; he punishes the "Cowards with Death, and makes the "Rogues and Deferters run the Gantlet; " besides a thousand old Womens Tales, " which several People relate, and believe " to this Day; but inflead of the Swarms " of Bees, which I expected from the Body " of this Animal, there were Thousands " of Maggots produc'd, with an infufferable " Stench, that I thought wou'd have in-" feeted all the Neighbourhood; and the " Stink was fo great, that all the Country " fancy'd they were threatned with the " Plague". You may fee from hence how wide Opinions are; and as I am not a capable Judge, I shall coment myself to make some Observations, founded upon Experience, as you will find in the following Relations; and those who defire to be instructed farther, must consult the best Authors, who have writ upon this Subject.

Observations upon Bees, according to an Account deliver'd me by a particular Person.

The Production of Bees, at first, is, that they breed from a Kind of little white Bud or Sperm, that is posited at the Bottom of their small Holes or Sockets, that make up the Honey-Comb, which the Bees make in their Hives, and which they begin at the End of the Hive. This Sperm, affifted by the natural Heat of the Bees, encreases and forms a Kind of white Maggot, which at the Beginning of its Formation, has no Resemblance of the Bee, but in a Month's Time it becomes like one, of the same Colour with to gather their Honey, is towards the latter a Maggot, and continuing so a little while, it grows black, and comes out of the Socket. The Bees generate from February, to serene, and gather the Dew, which is more

" more than I cou'd warrant from the Poet; Condition; and they swarm in May and " for his Burial, I took the bruis'd Members, June; but the May Swarms are more valued, " with the two Horns, and put them into a because they are stronger, than those that are " great wooden Tub, with four little Windows later; because the Season is more favoura-" open to the four Quarters of the Wind, in ble, and the Heat more temperate; whereas " order, as Virgil lays, to produce Thoulands the Swarms of June cannot be so successful, " of Bees. The King is faid to be bred from by reason they are usually attack'd with too " the Brain, the working Bees from the much Heat and Dryness at first; so that they "Stomach, and the Drones from the Guts; can neither supply themselves sufficiently the King makes War upon his Neighbour- with Provisions for their present Occasions, nor lay up Stores for Winter.

How the Bees work their Honey;

This I have observ'd, with particular Care and extraordinary Application, having spent a great deal of Time, watching the Hives every Hour of the Day, to satisfie my Curiosity in seeing the Bees work, having provided them Glass Hives for the Purpose. Towards the End of Winter, as oft as it is gentle Weather, as it happens sometimes that the Air begins to free itself of the great Coldness in the Month of February, the Bees venter out of their Hives, range the Fields. and bring home Wax of different Colours; as white, yellow, lemon, red, which sticks like little Lentils, on the hind Part of their Thighs; and which when entred into the Hives, they industriously quit themselves of, and form their Holes or Lodgments, which they labour to compose of fix Sides, that are made thinner and finer than Talck, and almost as transparent. It is observable, that the same Hollows, or Sockets, are those wherein they deposite their Sperm, whence are generated the other Bees, and which are fill'd with Honey, as they become empty by the Production of the young Bees which they enclose: They collect their Honey-Comb, or Wax, from all Sorts of Flowers, but the Rose, the Orange, the Pease Bloom, and the Daily Flowers.

Of the Manner how the Bees gather their Honey, and the most proper Times to take it.

The best Season of the Year for the Bees End of April and May, for then they go out by Break of Day, when the Air is gentle and plen : any other Part of the Year; they return al- but when older it turns black, is barren, and fo as quick as they can into their Hives, to discharge, into the Holes affign'd them, the Honey-Dew they have gather'd from the Siminto their Bodies, and throw it up again, as Pigeons do the Food wherewith they feed their Young: And when they have fill'd a Hole, or Socket, with this Honey, they close, Wax, to prevent it from flowing out again.

the Dews are not so plentiful as during the Months of April and May, it happens still there are some dewy Mornings in which the Bees are not less industrious than at other Times, to make their Harvest; and likewise it falls out sometimes that the Fruits of the Earth, as other Sorts of Flyes, but on the contrary are

pernicious to the Bees.

It is observable, that when they swarm, and that the young Ones which compose the Swarm are come out of the Hive, they make as it were a Cloud of Flyes in the Air, that looks black, and is form'd, as they march out, into Squadrons and Battalions, like an Army engag'd; they follow close their Leader, or the principal amongst them, who is much longer than the others, and whose Wings are much shorter, and which is of a reddish Colour: When they lose this Leader, they become Vagabonds, and this is a certain Loss to the Proprietor. When the Swarm are got out, they usually affemble together, and lodge upon some shady Branch, rather than in any other Place; and being thus closely knit, it is then proper to hive them, for fear they shou'd desert; for thou'd they stay long 'till the Sun shine upon them, they will then separate and fly away; and when they are hiv'd it is proper to fet 'em in the Shade from the Heat of the Sun, which might melt their new Wax, and incite them abroad again.

It is also to be observ'd, that the Bees Wax, for three Years together, is very generative, and plentifully productive in Breeding of the Bees; and that the Age of the Ho-

plentiful and common at that Time than cond it is yellow, and the Third brown; without Production, and then the Bees cease to make Honey, and breed any more Swarms.

I have Hives made of two Pieces in Form of ples of the Field, and which they have suck'd a Barrel or Sugar Loaf cut in the Middle; so that I need not destroy the Bees, and I take these Hives from Year to Year, in lifting up one Year one Part, and the following Year another, according as they are found and feal it up with a small Piece of white full, and instead of those that are full of Honey I put empty ones; and one very re-Towards the End of June and July, that markable Thing is this, that Bees delight much near Water, and watry Places, using a great deal of it in affifting them to make Honey; I have been inform'd of this by several of my Friends, and particularly by an Officer of the Kings, who having Bees in a Garden at Argenteuil, where there was a the Corn, and the like, are damag'd by certain Fish-Pond, the Bees used to go, and come Rains, Blites, &c. which are favourable for constantly to take up Water to carry to their Hives; upon which I ask'd him, what he thought of it? And he told me that it was a Thing he had always observ'd since he kept

> Care must be taken not to have any Space or open Holes in the Top or Bottom of the Hive; for July and August the Butterflies breed, enter their Hives, and engender large, short, hard Maggors, which lay the first Steps for Spiders Webs, which joyning the Combs together, produce a Heat, so that in two or three Days the Bees will be gone, and quite forsake it after having pillag'd it : These Maggots, tho' but few at first, will multiply so, that in less than five or six Days they will not leave one Ounce of the Honey-Comb behind, but instead of it leave their Eggs; which together with the Spiders Webs that are form'd, fill up the Whole of

the Hive.

It is further observable, That amongst the Bees there are Drones which will not go into the Fields at all; or if they do, which is not but from Noon 'till about four a-Clock, they bring nothing home with them, but on the contrary eat the Honey made by others; and the industrious Bees kill the Drones, which are much larger and blacker than the others, and have no Stings; but when you press their Tails there appears two little ney-Comb, is very easie to be known by its Horns like transparent Skins, which are yel-Colour; for the first Year it is whitish, the Se- low at the End. In Poland and Moscowy the

Bees make their Hives in the Trunks of old Trees, and afford Plenty of Honey without any Assistance, which is contrary to the Nature of ours. Upon this, Munster and Guyon relate a surprizing Thing: A Peasant falling into one of these Trees where the Bees made Honey, in a large Forest in Moscovy, as he was fearthing for the Honey-Comb, and not being able to get out because the Hollow of the Tree was too deep and wide, a Bear providentially coming to this Place to feek for Honey, the Pealant immediately catches the Bear by the Paw, and was drawn out from the certain Danger he was in of perishing in the Tree.

Apis, or the Bee, is a Sort of Lemery. Fly that makes Honey and Wax, and is suppos'd to take its Name from being a Fly without Feet, which is not fo in Fact, for it has Feet, but carries them close to its Belly, being difficult to separate; it has four Wings; the Tongue is long, which it carries usually out of the Mouth; it has small Teeth, and the Sting cleaves to the Belly. The Ancients pretended, that the Bee was generated from the Lyon or the Bull; but the vain Tryals several have made are sufficient to confute such a Notion, as being no other than the Fancy of the Poet: Indeed, we read in the Holy Scripture that Samson found in the Carcals of a Lyon, that had been kill'd some Days before, a Swarm of Bees and Honey, but they were never generated from the Flesh of the Lyon.

The Origin of 'em is certainly the same as that of other Flies, but only their Production is flower, tho' from the white Maggot they become a perfect Bee in a Month's Time. The large Bee which they call the King, because of the others that attend and follow him, is a Male Bee that is capable of applying a great many Females, after the fame Manner as one Bull supplies all the Cows of a Village. This Bee is much larger than the rest, but he has shorter Wings; his Colour is reddish, instead of being brown, as all the others are. The Bee sucks the Virtue of the Flowers, and receives it into her Pouch or Throat, from whence she difgorges it into the Hive, in order to work it up to Honey; she carries also the Wax sticking to her Thighs, the whole Kind yields a great a little aromatick. Next after this is that of deal of volatile Salt and Oil: They are proper, other Parts of Languedoc and Provence, but

being dry'd, to make the Hair grow; being reduc'd to Powder, and mix'd with Oil of Lizards, they make a Kind of Liniment, wherewith they rub the Head. The effential Salt of 'em is so volatile, that it is difficult to keep it in a dry Form; it is a most subtil and penetrating Thing, and one of the most powerful Diureticks and Diaphoreticks.

24. Of Honey.

E have three Kinds of Honey in France brought from feve- Pomet. ral Parts, viz. White Honey, which is made without Fire, which some call Vingin Honey, as well because it flows of itself, without pressing, as because it is made from the first Year's Honey Comb. The second Sort is made of all Kinds of Honey-Combs put together, after being well cleans'd, in a Bag, by Means of a Press, from whence there flows a white Honey, but very different from the former; not only because it is not so white, but because the Taste is not so agreeable. The Third is the Yellow Honey, which is made over the Fire in a Kettle, with a little Water, and then put into Bags, and squeez'd. The Yellow Honey is more or less fine, according to the Degree of Heat it receives; for if it is too much heared, instead of being of a fine Yellow, it will be brown, and of an ill Smell. They pretend likewise, that the Honey is less beautiful and good, according to the Quantity of Water which is put into it to heat it.

The finest and most esteem'd Hiney, is that of Languedoc, which is white; especially that of Corbiere, a little Borough, about three Leagues beyond Narbonne, which is the Place from whence comes the whitest and purest Honey, commonly call'd Narbonne Honey; tho' falfely fo, for at Narbonne, they do not know what you mean by Narbonne Honey, but only that of Corbiere; but the Name has been given to it, because Narbonne is a great City, and much better known than Corbiere, which is but a small Place. This true Honey, to have its proper Qualities, ought to be new, thick, candied, and entirely like Sugar Royal, of a sweet piquant Taste, and

Very much different and inferior to that of which the Bee extracts, and receives into her Corbiere; not only because it is never so Stomach to carry to the Hive, where she diswhite, but because it is not so pleasant to the gorges herself, and fills her Cell, which she and of the Country for twenty or thirty Leagues round, and which gives it the Name of Country Honey; and that is met withal sometimes fo good, that except the Taste and Smell, it is scarce inferior to that of Corbiere, Tafte and Scent of Honey proceeds from the Plenty and Goodness of the Flowers with which the Bees are fed; and as Languedoc and Provence are warm Countries, and con-Flowers, as Thyme, Rosemary, Sræchas, Sc. therefore the Honey is better, and of a more pleasant Smell, and more bought up, especially to make pectoral Prisans of, which is its chief Use; the Country Honey being principally imploy'd in the great Compositions, and to eat in Lent.

As to the yellow Honey, the best that comes to Paris, and the most fer by, is that of Champagne; which to be good, shou'd be fresh or new, of a good Body, of a golden colour'd Yellow, the most candied, and least full of Wax that may be; the Fault otherwise proceeds from the ill making of it; but the True Champagne is of much the best Sale, and of more Virtue than all the other Honeys brought from several other Parts, as Touraine, Picardy, and especially Normandy, which is ill scented, reddish, and of a very bad Sale, tho' yet it is more purgative than that of other Parts; and this Honey is very eafily known, both by the Colour and Smell; and likewise because it usually comes in Stone Pots, such as Butter comes in from Normandy: This Honey is very proper for the Apothecaries to make Honey of Roses, Violets, or the like. There are several other Ends this Honey serves for, as to distil into a Water, Spirit, or Oil, which are reckon'd proper to make the Hair grow, and to take out Marks, Spots, or Freckles in the Face: Some likewise assign to the Spirit of Honey, well rectified the Power of diffolving Gold or Lead.

Tafte or Smell, being artificially disguis'd has made in the Honey-Comb before, for with Rosemary to give it the Taste and Scent that Purpose. There are two Sorts of Honey of the true pure Honey of Narbonne: The third in general; one white, and the other yeland last Sort is the white Honey about Paris, low; the White is made of the first Year's Stock without Fire, or Prefling, which is call'd Virgin Honey; and the Second is preffedfrom the Wax, with Force, and by the Addition of Heat: The white Honey is finer, and more pleasant for the Palate, and confewhich may be readily granted, because the quently better for internal Ules. The Yellow has a little more Acrimony than the White, and therefore is more laxative, and externally a good Deterfive. Raw Honey is apt to gripe and swell the Belly; but being fequently full of aromatical Herbs and clarified, it opens, cleanfes, nourithes, and restores in Consumptions, is pectoral, diuretick, and one of the best Opthalmicks in the World.

The several Preparations made of Honey, and commonly fold, are first clarified Honey, next the Spirit, Oil and Water, the Tincture and Vinegar, with Mead, Metheglin and Hydromel. Clarified Honey is made with the Whites of Eggs; the Water, by putting Honey into a large Glass, or earthen Body, and diffilling in Sand with a gende Heat, until acid Drops begin to come, then cease the Fire, and keep the Water for Use. To make the Spirit and Oil, take what remains in the Retort aforegoing, and put it into an earthen one, or Glass one coated; but let it be so large, that two Thirds of it may be empty; place your Retort in a Reverberatory Furnace, with a large Receiver, luting the Juncture; begin the Distillation with a small Fire, for about three Hours, to warm the Retort; then increase it by little and little, so will the Spirits come forth, with a little black Oil, and fill the Receiver with Clouds, continue the Fire 'till all is come over; then separate the Spirit from the black stinking Oil by Filtration, the Spirit will be in a pretty Quantity, the Oil little and inconsiderable. The Spirit of Honey is an excellent Aperitive, cools the violent Heat of Fevers, quenches Thirst, and strengthens the Stomach, and may be put into Juleps, to give them a pleafing Acidity; it may be rectified by diffil-Mel, or Honey, is a compound- ling it in a Glass Cucurbit in Sand; what ed Body of divers Parts of Flowers, afcends first is Flegm; that which rifes last is the strongest of all, and is us'd to cleanse old Ulcers, as the Oil is to Icale rotten Bones.

Tincture of Honey is made of pure Virgin-Honey, mix'd with wash'd Sand or Bone-Ashes, whereon is thrown the best rectified Spirit of Honey; then let 'em stand in Digestion in a Cucurbit, having a flat Bottom, 'till the Spirit is ting'd of a golden Colour, which decant, pouring new Spirit upon the Fæces, fo long, 'till it will be no longer ting'd; mix the ting'd Spirits together, and abstract in Balneo Marie, 'till only a third Part remains, which is the Tincture, and one of the noblest Medicines for inveterate Coughs, Phthisicks and Catarrhs, from a Quarter of a Spoonful to a whole one. Mead is compos'd of one Part of Honey, to eight Parts of Water, well boil'd, and work'd up with Yest Blood warm, or clarified with the Whites of Eggs, Shells and all: Some add Aromaticks; as Cloves, Nutmegs, Cinamon, Lemon-Peel and Ginger; others Alteratives, as Thyme, Marjoram, Mint, Balm, Rofemary, Cowslip, &t. fome Diureticks, as Sweet-Briar, Eryngo, Tamarisk, &c. and so every Person make it to their Fancy, whether for medicinal Uses, or other Purpoles. Metheglin is made of one Part Honey, and four Parts Water; to which may be added Balm, Sage, Mint, Rosemary, Thyme, Bay-Leaves, Angelica, Savory, Roman Wormwood, Geranium Molchamm, Origanum, Nurmegs, Mace, Cloves, Cinamon, Ginger, or the like, in the Boyling of the Liquor; and in Tunning of it up, some add black Currans, others Raifins in the Sun. Hydromel is made of the best Honey, eight Pounds; Raisins, four Pounds; Tamarinds, half a Pound; fifteen Quarts of Water; boil all fo long 'till an Egg will fwim on the Top; let the Fæces settle; then decant the clear Liquor into a Cask, adding to every five Pounds four Ounces of Spirit of Wine rectified; let it stand fix Months, and then drink of it as you please; all the Preparations of Honey are pectoral and diuretick.

25. Of Bees-Wax.

REsides the different Sorts of Honeys, and the Ules made of em, we drive a great Trade in yellow and of the Hives, to hinder the cold Air from

white Wax; the first Sort is made from the Preffing of the Honey-Comb over a Fire, with a sufficient Quantity of Water; and when all is diffolv'd they strain it through a Cloth; this done, they melt it and foum off the Drofs and Froth, and afterwards cast it into Cakes. Some Persons, to refine the Wax, ule Roman Vitriol, or some others; but for my own Part, the best Secret I know of is to purifie it well by Melting.

That which we call Wax, is, in its natural State, the Honey-Comb, which contains the Honey in the Hive: Poland, Barbary, Britaigny, and several Parts of France, furnish us with a great deal of yellow Wax; but that of Dantzick, Britaigny, and Champagne, is reckon'd the best: Chuse such as is of a high yellow Colour, a good Smell, easie to break, and that does not flick to the Teeth; and take care that it be the same on the Infide as the Outfide; and when in large Cakes. as that from Dantzick that there be no Water, Stones, or Earth in the Middle; or that it be not mix'd with Rosin, white Frankincense or Pitch, colour'd with Turmerick or Roucou.

The Use of yellow Wax is considerable for several Sorts of Works; as Tapers, Candles, and other Wax-Works; it is of great Ule in Medicine, for it serves to give a Body to Oyntments and Plaisters, and likewise to make Sealing Wax for great and less Deeds. Some will have it, that yellow Wax has no Virtue in Physick. By the Resort there is made with Wax, Earth, and Oak-Ashes, a white thick Oil, like Butter, which is call'd Butter of Wax, which ought to be white, and have the Smell of Wax; of this Butter, together with Bole, Chalk, or the like, in Powder, by Means of a Glass Retort on a Sand Fire, they draw a clear white Oil, like Water, that is of an agreea-ble, or pleasant Smell. The Butter and Oil of Wax, are much valued for the Cure of Chilblains, especially those that are apt to chop, and other Maladies of the like Nature; that which remains in the Bags, after the Wax is strain'd out, is nothing else but the dead Bees and other Filth. We meet with, besides this in the Hives, a Kind of red Wax, call'd Virgin Wax, or Propolis, which is that the Bees use to stop up the Chinks or Holes

entring; this Wax is sweet scented, and smells almost like Storax, and will chew and mould like Mastick; it cleanses and digests hard Tumours, eases Pains, and cures Wounds and Ulcers.

of White Wax.

The White Wax is made out of the Yellow; the fame being by a certain Engine made into small Flakes, and then bleach'd in the Sun, by which it will become very white; it is then cast into round Cakes, some thicker, some thiner; that is the best which fmells well, and chews hard, not being mix'd with Sheeps Suet, and is withal of a clear Colour, without any Cast of Yellowness. The best and most proper to turn white is the Yellow Wax of Bretagny; which when it is well done, as that usually is of Chateau-Gontier, eight Leagues from Angers, which paffes for the best Sort in France, will be pure, white, clear, transparent, in thick Cakes, that when broken betwixt the Teeth does not stick, neither has any ill Taste or Scent.

It is with this fine Wax we make the finest :Works; as Tapers, Wax-Candles, Flambeaux, Figures, and other Cariofities in Wax: And we reckon, after the Chateau-Gontier Wax, the second Sort is that of Angers ; the Third that of Mans ; the Fourth that of Holland, which is generally brought in great Cakes of four or five hundred Weight; and the first Sort is that we call the Dutch Wax Royal; the Fifth is that of Amboise; the Sixth of Chaumont near Troyes: In short, the Seventh, and the worst, is that of Roisen, because of the great Addition of Suet they put in, which is better or worse, according to the Quantity of Suet that is mix'd with it.

Of the foft Red and Green Wax.

The foft red Wax is made of white Wax melted with Turpentine that is wash'd, and then colour'd with Vermilion, or Orkanet. This Wax ought to be of a good Consistence, a fine Red, well made; the chief Use of this, as well as the Green, is for the Lawyers to seal Writs and Deeds with. The green Wax is made the same Way, only Verdegrise is us'd instead of Vermilion.

Of the black Indian Wax.

In feveral Parts of the Indies, as well East as West, they have little Bees, which hive, or make their Nests in the Hollows of certain Trees; the Figure of which you have before: These Bees deposite their Honey in little Veffels of black Wax, which are of the Size and Shape of Pigeons Eggs; the Honey is very pleasant, and of an Amber Colour. The Indians use this Wax to make Tapers of, and to gather from the Tree, the Balsam call'd Tolu. Some Authors say, that there is an Animal like a Cat, that is black, which the Indians call Heirat, or the Honey Beast, which climbs the Trees, and eats all the Honey; and that which is surprizing is, that this Animal draws out the Honey-Comb with its Paw, and does no Damage to the Bees; and the Bees do not hurt him, because they have no Stings like ours. This Wax was formerly much us'd in Spain, and a little in France; but at present we know not what it is, being one of the scarcest Druggs we have. All the Kinds of Wax are naturally compos'd of Oil, volatile Salt, and Flegm without Earth, being emollient, resolutive, and proper for Oyntments, Cerecloths, and Plaisters.

26. Of Ambergrise.

AMbergrise is the dearest and most valuable Commodity we have Pomet. in France, and a Thing the leaft understood, its Nature and Origin being most contested; for if I shou'd relate what Authors have faid upon this Subject, it wou'd make a Volume of itself; but to reproach no Body, and not to repeat what so many Authors have faid, I shall affirm, that the Ambergrise we have brought us from several Parts, but chiefly Lisbon, is nothing else but a Mass of Honey-Combs, that fall from the Rocks into the Sea, torn off by the Waves of the Sea, the Violence of the Winds, or otherwife: These Honey-Combs being in the Sea, whether by a Property of the Sea Water, or by the Virtue of the Sun Beams, are render'd liquid, and floating upon the Water, as is to be met withal, sometimes. Many

hath been hitherto so little known, comes from nothing but Bees Wax, which I cou'd not have affirm'd, if a Friend of mine had not affur'd me, he had seen a Piece that was one half Ambergrise, and another Wax; and to confirm what I say, Mr. de Monconys Lieutenant General of Lyons, at Page 71, of his Voyages, affirms that he was inform'd in England, that Ambergrise was nothing but Honey-Combs the Bees make upon the large Rocks, which are on the Sea Side in the Indies, which heated by the Sun, loosen and fall into the Sea, and by its Agitation are brought to Perfection; and that having broken a large Piece of Ambergrise, which was not yet perfectly concocted, he found in the Middle of its Substance, the Honey-Comb, and the Honey, both together: And for further Confirmation, when the Ambergrise is dissolv'd in Spirit of Wine tartatirely like Honey. And to make it appear that Ambergrise is nothing else but the Product of the Honey-Comb, observe the great Quantities that are sometimes found of it; not in Pieces of three hundred Weight, as fome have writ, but thirty or forty Pounds are sufficient.

Mr. Tavernier, amongst other Things on this Subject fays, that in the Year 1646, or 1647, a Zelander that was of one of the best Families of Mideleburg, who was Governour for the Dutch East-India Company, in the Isle of St. Maurice, which is on the East of Madagascar, found on the Shoar a Piece of Ambergrise forty-two Pounds Weight, which he fent to the Company; but, as such Persons have ever some Enemies, and the Piece appearing as if something had been taken from it on one Side; the Commander was accus'd of having taken half, of which vet he justified himself at Batavia.

In the Choice of Ambergrise, which some have call'd by the Name of Oriental Amber, let it be in fine Pieces, of a greyish Colour Spots within, of a sweet pleasant Smell;

Many Persons will be surprized at what I lidity. The best Tryal of it is a Dissolution advance, that Ambergrife, whose Nature in Spirit of Wine; for that which is purest, and leaves the least Faces is the best. The Fictitious is known by the Smell, as well as Colour; the Materials, of which it is made, appearing either too black, or too white, and will dissolve easily in Water, being compos'd of Musk, Civer, Aloes Wood, Storax, Labdanum, Goat's Blood dry'd, &c.

Ambergrise, besides its Use for the Persumers, by Reason of its excellent Scent, is a very good Medicine to warm the Stomach, and prevent the Cause of the Gout, from attacking the Vital Parts; it refreshes the Animal Spirits by its volatile Sulphur, ftrengthens the debilitated Parts, and restores in Confumptions. As Ambergrise is a very dear Commodity, those who buy Quantities of it, must take great Care that there be no Mixtures in it, or that it be not counterfeited: The Thinness of the Substance of this Drugg, is the Reason that it is never expos'd riz'd, there remains at last a Substance en- to the Violence of the Fire, but only dissolv'd in Spirit of Wine, or Spirit of Roses; or some such like Menstruum to prepare it, exalt its Smell, and separate it from its earthy Parts; and this is call'd by the Name of Tincture, or Essence of Ambergrise.

Of Essence of Ambergrise.

Essence of Ambergrise, us'd by the Confectioners, Perfumers, Distillers, and others, may be made after these several Ways: To make Mr. Charas's Essence, take Choice Ambergrise, two Drams; Sugar Candy, two Drams; Spirit of Wine, four Ounces; ardent Spirit of Roses, half an Ounce; put 'em into a Glass Matrass, with a blind Head luted in the Junctures, fer in the Heat of the Sun, Horse-Dung, or Sand, dissolve and make a Tincture; decant the Clear, and keep it for Use in a Glass close stopt : The Dole internally may be given to three Drops in Cinamon Water, or any restorative Liquor. Another Essence is made thus: Take Ambergrise, and white Sugar Candy, in Powon the Outside, mark'd with little black der, of each two Drams; Musk one Dram; Oil of Cinamon, Citrons, Oranges, Roles, and meddle not with that which is soft, fat, Lavender, of each two or three Drops; musty within and without, and which is full mix and beat it up into a Paste, and dissolve of Dirt and Filth, that is got when the Am- it as you have Occasion over a gentle Heat, bergrife was liquid, or before it gains its So- in Spirit of Wine, in a Bolt Head; or you

of Wine tartaris'd, digesting in a Sand Heat, or Horse-Dung, for some Time.

The Way to make any odoriferous Thing yield its Scent, is by opening the Body of it first : which done, the Smell exerts and diffuses itself immediately, in such Vehicles as have Power either to dissolve the separated Particles, or extract their Sulphur or Tin-Cture. Ambergrife is open'd by grinding it first with Sugar Candy, then with Oil of Ben: It is also open'd by grinding it with the Yolk of an Egg, and several other Ways. Ambergrise, in its natural State, scarcely affords any Scent at all; but if it be open'd, and excited by Solution, with a convenient Proportion of Odours and volatile Sulphur, fuch as that of Civet, it presently yields a sweet and pleasant Flavour; for Example: Take ten Grains of Ambergife, and three of Civet; beat them together in a Mortar, and the Ambergrise will presently melt; upon which, for encreasing the Acid, put two or three Drops of Juice of Lemons to it, fo will you have a Perfume of an admirable Sweetness.

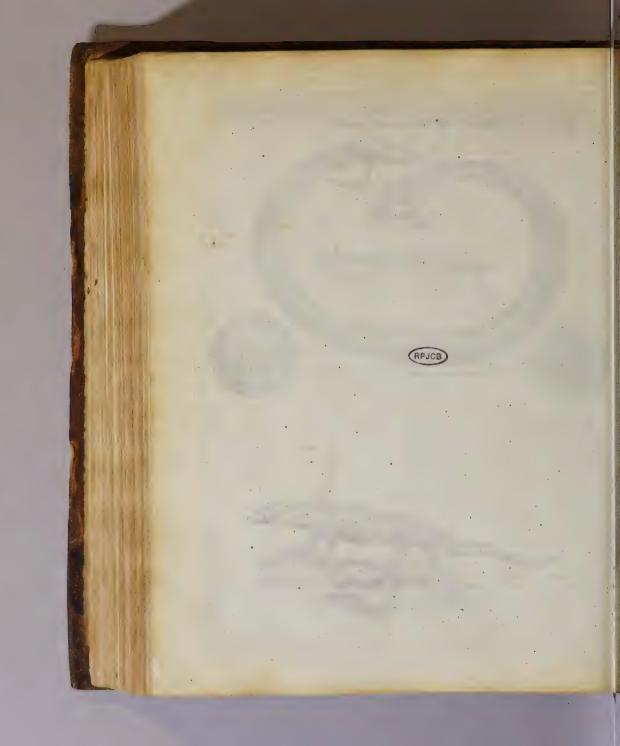
Ambra-grisea, seu Ambra cine-Lemery. ritia, or Ambergrise, is a valuable Commodity that is very dry, and almost as hard as a Stone, light, opaque, greyish, and scented: It is found in Pieces of different Bigness, floating upon the Water in feveral Parts of the Ocean, as towards the Coasts of Moscovy and Russia, and particular-There was a Piece of a prodigious Size, that was faid in the Year 1694, to be car-Opinions concerning the Production of Ambergrije, 'till of late it feems to be universally agreed, that its made from the Honey-Combs that fall into the Sea from the Rocks where the Bees had form'd their Neils; and this is confirm'd by Experience, because feveral Persons have seen Pieces that have beeu thing but the plain Honey-Comb: And

may make it with Ambergrife alone, in Spirit little black Spots, of a fweet pleafant Smell, but avoid the moift, foft and foul Ambergrife. as being good for nothing; it is call'd Ambra Cineritia, as being of an afto Colour; it strengthens the Brain, the Heart, and the Stomach; procures Alacrity, and makes the Spirits gay; provokes Luft, and is a good Antidote against Poison or Infection in Men. but raises the Vapours in Women, therefore ler them avoid it. We meet fometimes, amongst the Druggists, with a white Ambergrife, which differs from the other not only in Colour, but it is nothing fo strong, or half so good. There also is a black Ambergrise, but it is good for nothing in Physick, and but of very little Use for the Persumers.

27. Of the Viper.

THE Viper is a Kind of Serpent that is very common in feveral Pomet. Parts of France, but chiefly in Poi-Elou, from whence almost all the Vipers come. that we fell at Paris. As these Animals were terrible, or frightful to all the World heretofore, so they are very familiar to us at prefent; infomuch that there are very few People of Quality, in Places where they are to be had, but what make use of 'em as good Diet, and a specifical Remedy against several Sorts of Difeases, as may be seen in Mr. Charas his Treatife of 'em, wherein he has faid all that can be faid on that Subject, to which the Reader may have Recourse at ly in the maritime Parts of the Indian Seas. his Pleasure; upon which Account I shall content myfelf in directing him to chuse the largest, liveliest Vipers, and such as are newry'd into Ireland, that weigh'd 182 Pounds. ly taken; and to take Care that they are The Naturalists have differ'd much in their put into temperate Places, because extraordinary Cold or Heat is contrary to them : They ought likewise to be careful, when they receive any fresh Vipers, to take themout of the Boxes they are brought in, and to take from them the dead ones, if there is any, as sometimes it happens; and to put 'em into a Tub with Bran one half Ambergrise, and the other no- or Moss; not that it serves 'em to seed upon; as some fancy, because these Creatures neothers again have met with large Pieces of ver eat after they are taken, but only live Ambergrise, where, in breaking of it, they upon the Air, and notwithstanding this, they have found in the Middle, the Honey-Comb will continue alive fix Months. It is likewife and the Honey too: Chuse such as is clean, to be observ'd, that they are to be taken well dry'd, light, and spotted within, with either by the End of the Tail, or else with a





Pair of Tongs; because this Animal, when in the Cinder Place, which keep on Foot for why the Takers of 'em ought to be very cautious; the Keepers of them ought to be so likewise, least by Mischance they shou'd escape and get into any House, which wou'd be very dangerous, especially where there are Children.

from Poictiers, which if good ought to be freshest kill'd that can be got; for in a little Time after they are dead, the Worms will careful likewise, that every Bundle, or Parcel of Vipers, which is usually two Dozen, have the Hearts and Livers along with them, these being the most noble Parts of the Animal, and weigh three Ounces and a half; and fometimes, but very rarely, four Ounces weight; and take Care they be not such as have died of themselves, which you may easily discern, by their extraordinary Blackness: Some will say, that there are Snakes and Asps sold for Vipers; but this I done at Poiltiers. There is, besides, a great is nothing more lyable to be adulterated. which lies at the Bottom of the Matrass, as a The dry'd Vipers, with their Hearts and Livers, reduced to Powder, and fifted thro'a fine Silk Sieve, is what some call Bezoar Animal, pretending that this Powder, thus made, has the same Virtues with the Oriental Bezoar, treated of before.

They bring us also from Poistiers, the volatile and fix'd Salt of Vipers, the Fat, and the black Oil that is made by the Retort, whose Virtues and Preparations you have thus describ'd by Mr. Charas. Take Vipers, all their Parts very well dry'd, cut 'em into

he finds himself squeez'd, bites whatever he two Hours, only to heat the Retort and Furmeets with; and the Biting of the Viper be- nace; then removing the Fire into its Place, ing very dangerous and mortal, is the Reason keep it in the same Heat for two Hours longer; at the End whereof encrease the Fire one Degree, giving a little Air to the Register of the Dome, continuing it so for two Hours more; and encrease the Fire to the third Degree for the same Time; after which fer the Register of the Dome quite We have a great many dry'd Vipers brought open, encreasing the Fire to the highest Degree, which continue fo long 'till nothing heavy, large, long, well dry'd, and the comes out of the Retort, and that all the Vapours in the Receiver be converted into Salt or Liquor; then cease the Fire, and eat 'em in such a Manner, that nothing will the Vessels being cold, unlute the Receiver, be lest but the Skeleton: You ought to be and dissolve the Salt in the Liquor, or Spirit.

To rectifie it, put all this distill'd Matter into a Glass Matrass, with a long Neck; place it in a Sand Hear, cover it with its Head, and joyn to it a small Receiver, luting well the Joints, and give a gentle Heat, so will the volatile Salt ascend, white and Crystalline, to the Top of the Head, which take and put up into a double Glass Bottle, stopping it very close; continue the Rectification, separating and keeping apart can't affirm, having never known it to be the Spirit, which is the remaining Part of the volatile Salt, dissolv'd in some Flegm, deal of Vipers Powder fold; but those that and the Oil; and cause all the volatile Salt, buy shou'd take special Care, because there and oily Parts, to ascend, casting away that Thing of no Use.

This volatile Salt of Vipers is reckon'd att Antidote against Poisons, and a perfect Cure for the Biting of the Viper, or any other Kind of Serpent, or venemous Creature: It is also prevalent against the Measles, Small-Pox, Plague or Pestilence; it resists Putrefaction in the highest Degree, becomes specifical in Intermitting Fevers, chiefly the Quartan; and there is scarce a Medicine known in the World more able to purifie the Mass of Blood, and give it its natural Fluidity, small Pieces, with which fill a large Retort whence it does such considerable Feats in of Earth, or Glass well coated; fill it almost chronick Cases; as Scurvies, Erysipela's, quite up to the Top, fix to it a very large scal'd Heads, and strumous Breakings out : Receiver, luting the Junctures well, place it causing the foul impure Humours to perspire on a naked Fire, in a close Reverberatory, through the Pores of the Skin: It is also one or a Reverberatory Furnace, with its Dome; of the most powerful Remedies in Nature, shut up the Register of the Dome, and the for Gout, Rheumatism, and Venereal Re-Door of the Fire Place, make a gentle Fire licks; for it opens, penetrates, attenuates,

and is fudorifick; fo that it drives out any corrupted or malignant Humours, through the Habit of the Body; it dissolves coagulated Blood, removes Inflammations, prevents Apostems, and cures Pleurisies : This Salt is very aperitive, and opens Obstructions both of the Head and other Parts; and relieves all Diseases of the Brain and Nerves; as Palfies, Convulsions, Vapours, Fits of the Mother, and the like; so that both for external and internal Uses, there is scarcely found a more universal Medicine.

All other Preparations of Vipers, as Powders, fix'd Salts, Tinctures, Decoctions, Broths, Gellies, Wines, Essences, Troches, Elixirs, Extracts, &c. compar'd with the volatile Salt, are nothing, for in that is to be found the Sum of all that is in the Viper: to, and to touch the Nostrils with in Va-Elixir, with Spirit of Nitre, and Spirit of Wine tartarised, it is a most fragrant Medi-cine, clears the Spirits, suppresses Vapours,

and invigorates Nature to a Miracle. Le Febure teaches us how to fix this volatile Salt, which is done by Acids, viz. with well rectified Spirit of Salt, dropping it upon it, diffolved in its own Flegm, 'till the Effervescency and Strife ceases, by which the volatile Salt is united to the Acid: Now though there be no great Need of this, yet it may be of some Use to watry Stomachs; and tho' the Taste and Shape of this Salt, thus fix'd, much resembles Bay Salt, it is quite another Thing in its Effects; this is evident by mixing it with double its Weight of Salt of Tartar, and subliming in proper Vessels; for then the volatile Salt will ascend with its first Force, Strength and Virtue.

Vipera, or the Viper, is a Kind Lemery. of Serpent, which comes alive out of the Belly of its Parent, and not from an Egg, as the other Kinds do; it is about as long as one's Arm, and two Inches thick; fometimes bigger, and fometimes less, but never arrives at the Size of the large Snake, tho' in outward Appearance they are very like 'em: They are cover'd with a of feveral Colours as in Waves, foft and Time he falls into Convulsions and dies. viscous underneath, and of very close Pores.

The Jaws are set on both Sides with little Teeth, like the Snakes; but besides these little Teeth, there is on each Side a Kind of a Tusk, or a long, sharp, cutting Tooth, that is sometimes fork'd: In the Jaw is a Bladder, full of a yellowish Liquid; the Tongue is long and cloven, which it darts out with great Violence; being provok'd, it looks like a Firebrand, which proceeds from the quick Motion or Agitation of the Spirits. This Tongue was suppos'd to be venemous, but it contains no manner on harm in it; the Eyes are very small. The Vipers breed in wild flony Places in Dauphiny and Poictou; they live, being at Liberty, on Rats, Frogs, Worms, and several other Insects; but when taken and confin'd, they will live above a Year, without any other Subfiftence but the The Oil is so fetid, that it cannot be taken Air they receive by the little Holes made in inwardly; outwardly it may be us'd to smell the Tubs or Chefts wherein they are kept; the Reason why they live so long without pours and Fits; but if it be made into an eating, is, because the Pores of the Skin are so closely contracted, that they emit but very little Spirits or Effluvia.

They take the Vipers in Spring Time, or Autumn, because they are then fatter, and more active than in any other Season: The Peasants take 'em with little wooden Tongs made for the Purpole, and carry 'em in Bags to the Apothecaries; they are much more sprightly and gay, when they are in the Field, than after they are taken, because they then draw themselves up into a narrower Compals, and contract their Pores. These differ from other Serpents, not only as to the two Teeth that are in their Jaws, but likewise by a different Connexion of their Vertebra, which hinders them, when they are taken by the Tail, from twifting, and turning about the Arm or the Tongs, as the Snake does.

The Viper bites with his long Teeth, and shoots into the Wound a Spirit, or very volatile acid Liquor, which infinuates into the Vessels, coagulates by little and little the Blood, and interrupts the Circulation, from whence flows Death, if not prevented. This Effect has a great deal of Analogy with that which happens upon Syringing, thro' Curiofity, some acid Liquor into the Veins of a smooth Skin, a little scaly, on the Backside Dog, or other Creature; for in a short

The Accidents which attend those who have had the Misfortune to be bit by a Viper, are first of all that they grow pale, and then turn bluish, is more or less tingd in the Veins and Arteries. In the second Place they become reftless, melancholy, and sleepy; the Pulse is intermitting, because the Course of the Spirits being intercepted by the Coagulum that is made in the Vessels, the Blood cannot circulate, but with Difficulty. In the third Place they are chilly or cold, have Inclinations to vomit, and convultive Motions: because the saline and acid Particles which are introduc'd into the Blood, and which are pungent, prick, or irritate the internal Coats of the Veins and Arteries. In the last Place they dye, because the Blood growing sharper, and coagulating still more and more, the Passage of the Spirits is entirely stop'd, and there can be no Circulation, without which they cannot live.

The Remedies against the Biting of Vipers are external and internal; the External are the speedy Binding of the Part wounded, if possible, making the Ligature tight, in order to hinder the Poison from spreading surther; but if the Part that is bit cannot be bound, you ought instantly to apply upon it the Head of the Viper that did the Mischief, after being bruis'd, or else that of another Viper; otherwise to heat a Knife, or some Piece of flat Iron, red hor, and hold it near the Wound as hot as the Patient is able to bear it; or to burn upon the Wound a little Gun Powder; or else scarifie and apply

bruis'd together.

These external Remedies open the Pores of the Wound, and make the envenom'd Spirits flow; but it ought to be observ'd, that these Sorts of Medicines shou'd be us'd upon the Spot, where the Biting is made; for if there be Time given to the Poison to enter into the Vessels of the Body, before Application, all will be useless, because the Poison returns no more to the Wound. But tho' external Remedies ought not to be neglected upon this Occasion, they are what brings but little Relief, in Comparison of those Things that may be given inwardly; for the Venom of the Viper being very subtil, it passes instantly into the Blood, and therefore the Pa- Kinds are produced from Eggs. tient must take such Medicines as have

Power to break the Points of the Acids, diffolve the Blood, and other coagulated Humours, excite or promote the Circulation, push forward by Perspiration and Urine, whatever Poison of the Viper may remain.

The volatile Salts of Animals are sufficiently efficacious for these Intentions, because they are alcaline, very volatile, rarifying, sudorifick, and aperitive. That of Vipers is preferable to all others, because it is the most subtil; but instead of that, we may ule the volatile Salt of Harts-horn, that of Urine, or Human Scull. Venice Treacle is, notwithstanding, very proper, if old, to relieve this Malady, because it is compos'd of Ingredients chiefly attenuating and rarifying; but when it is new we cannot use it with Succels, because the Opium which has not yet been rarified by Fermentation, will rather fix the Poison, and thicken the Humours,

than rarifie and discharge them.

The largest Vipers, and such as are well fed, ought to be chose, that are gather'd in Spring Time, or Autumn, when they are in the best Condition. The Trunk of the Viper, separated from the Skin and the Entrails, is administred against Poisons, to purifie the Blood, in small Pox, intermitting and malignant Fevers, boil'd in Broths, or taken in Powder, from eight Grains to two Scruples, or a Dram. The Fat of the Viper is sudorifick, resolutive and anodines, taken internally or externally; the Dofe from one Drop to fix. The Liver and the Heart of the Viper being dry'd and pow-Treacle with Garlick and Sal Armoniack der'd, are call'd Bezoar-Animal, and are reckon'd the most powerful Part of the Viper & The Gall is sudorifick; the Dose being one or two Drops; it is likewise good for Catarrhs of the Eyes, to deterge and refolve. The Word Vipera comes from Vi, Force, and parere, to engender or bring forth; because the Ancients believed that the Female Vipers, in the Pleasure of Coition, eat off the Head of the Male; and that the young Ones, to revenge the Death of the Father, rip'd open the Belly of the Mother; but the Word Vipera seems rather to be deriv'd from viva alive, and parere to bring forth, which is are much as to say, the Kind of Serpent that is brought forth alive, because all the other

28. Of Treacle; commonly call'd Venice Treacle.

T Reacle is a Composition of cer-Pomet. tain choice Druggs, prepar'd, powder'd and reduc'd into an Opiat or liquid Electuary, with Honey: The Treacle takes its Name from the Viper, which the Greeks call Therion, or Thyrion; and it was compounded by Andromachus, the Father, a Native of Candia, and first Physician to Nero. The Venetians, of late Years, have got the Reputation of being thought the only People who had the true Way of preparing the Treacle; and at present the Apothecaries of Montpellier make such vast Quantities of it, that one may see Multitudes of these Treacle Barrels, which has reduc'd it to fo low a Price, that one Pound of good Honey will fell for more than the same Weight of this pretended Treacle: And if I was permitted to publish the Frauds that are committed in preparing this Antidote, I am satisfied the Magistrates wou'd presently put a Stop to this Abuse, both as to that which is fold about at Markets and Fairs, as well as to what is fold at Paris for fixteen or eighteen Pence a Pound: And notwithstanding it is fold at such a low Price, those who deal in it get considerably, because what they fell is nothing but the worst Honey, in which is incorporated a Parcel of rotten worm eaten Roots and Druggs, that are no better than the Sweepings of Shops; and to promote or recommend the Sale of this, they cover the Pots with a printed Paper, wherein are two Vipers that compose a Circle, crown'd with a Flower-de-lis, which contains this Title, Fine Venice Treacle, tho' it is made at Orleans or Paris.

As to that of Montpellier, I have feen it often made there, where it is prepar'd with all the Exactness that can be; but what is fent to the Fairs for common Sale, they mix with large Quantities of boil'd Honey, being oblig'd to sell it at about eighteen Pence a Pound; that which is true, standing them in above fourty Pence a Pound: The Treacle Makers are call'd by the honest Apothecaries, to ridicule them, Mustard-Makers. As to but as to what is made at Paris, by Mes- due Consistence.

fieurs Charas, Geoffroy, Fosson, Bolduc and Rouviere. I have feen it prepar'd with all the Care imaginable: And I can affirm, for a certain Truth, that there was a large Quantity thereof made in March, 1688, without fubstituting any Thing, and with the finest and best Druggs that were ever seen, being also defign'd for a Master-piece, or Tryal of Skill; but as we are not immortal, and that those who sell this may be capable of knowing the true Composition, and of making it themselves aright; in order to prevent Abuses, I shall here give you the true Receit, which I would not have done, if Mr. Charas, who has writ a particular Treatife of Treacle, had mention'd the Names of the Druggs in French: This Book is entitled, The Natural History of Animals, Plants, and Minerals, that make up the Composition of Andromachus's Treacle.

Andromachus's Treacle.

Take Troches of Squills, fix Ounces: Troches of Vipers and Hedycroy, long Pepper, Opium prepar'd, of each three Ounces; red Roses, Florentine Orrice, Juice of Liquorice, wild Navew-Seed, Balfam of Judea, fine Cinamon, Agarick, of each one Ounce and an half ; powder'd Myrrh, Arabian Costus, Saffron, Cassia lignea, Indian Spicknard, Flowers of Camels Hay, Olibanum in Tears, white and black Pepper, Dittanny of Crete, Tops of white Horehound, fine Rubarb, Arabian Stachas, Macedonian Parsiv Seed, Mountain Calamint, Turpentine of Chio, Cinquefoil Root, Ginger, of each fix Drams. Poley Mountain, Ground Pine, Storax in the Tear, Spicknel, true Amomum, Valerian, celtick Spicknard, feal'd Earth, Germander, Indian Leaf, natural Chalcitis, Gentian Root, Aniseseed, Juice of Hypociftis, Fruit of the Balfam-Tree, Gum-Arabick, Fennil-Seed, common Cardamum, Marsilian Hartwort, Treacle-Mustard, Flowers of St. John's Wort, the true Acacia, Gum-Sagapen in Tears, of each four Drams. Caftor, imall Birthwort; Candy Carrots, Jews Pitch, Flowers of the leffer Centaury, Opoponax, and Galbanum, of each two Drams; the Venice Treacle, I can say nothing to it, Choice Honey, three Times the Weight of not knowing directly how they make it; all; Spanish Wine as much as to give the

Troches

Troches of Squills. Take Pulp of Squills, Description of which Additions he gave to twelve Ounces; Flower of the bitter Vetch, eight Ounces. Troches of Vipers are made of the Flesh boil'd in Water with Dill and Salt, and cleans'd from the Bone, of each eight Ounces; Crumbs of Bread dry'd and fifted, two Ounces and an half; according to Mr. Charas they are made up of Dittany of Hedycroy, Take Herb-Mastick, the less Marjoram, Asarabacca, Rose-Wood, of each two Drams; Camel's Hay, Calamus Aromaticus, the great Valerian, Wood of the Ballam Tree, true Balfam, Cinamon, Arabian Costus, of each three Drams; Myrrh, Saffron, Indian Leaf, Spicknard, Caffia lignea, of each fix Drams; true Amomum, one Ounce and an half; Mastick in Tear, a Dram; Spanish Wine enough to form into a Mass. The Way of making all these Troches is to be met with in most Dispensatories, especially those of Paris, Bauderon, Charas, and others.

The Grand Treacle reform'd by Monsieur d'Aquin, the King's Physician.

Take dry'd Vipers, with the Hearts and Livers, twenty-four Ounces; Troches of Squills, Extract of Opium, of each twelve Ounces; Roots of Contrayerva, Virginia Snake Root, Angelica, the great Valerian, Spignel, Gentian, Birthwort, Costus, Indian and Celtick Spicknard, Cinamon, Oil of Nutmegs by Expression, Sassron, Dittany of Crete, Indian Leaf, Water Germander Mountain Calamint, Poley Mountain, Ground-Pine, Flowers of St. John's Wort, and the leffer Centaury, Arabian Stæchas, Amomum, Small Cardamoms, Macedonian Parsley-Seed, Bishops-Weed, Marsilian Hart-wort, and Myrrh, of each eight Ounces; Rosin of Storax, Opopanax, Gum Sagapen and Castor, of each four Ounces; a Mellaginous Extract of Juniper-Berries, seventy-two Pounds; Malm-Jey Wine, one Quart.

This Prescription of Treacle has been berter received than that of Andromachus, of later Years, by reason of the vast Number of Ingredients, and the little Virtue that most of 'em have, which was the Reason why Mr. D' Aguin expung'd what was superfluous,

Mr. Charas, to insert into his Royal Galenical Pharmacopæia. As to the Virtues of Treacle, I shall not insist on that Topick, because there are several Authors who have treated of them, besides the several printed Papers dispers'd with it, that come from Venice or Montpellier, that explain the Use of Root instead of Bread Crumbs. For Troches it. In several Dispensatories we meet with a third Sort of Treacle, call'd the Diatessaron, because it is compounded of four Druggs, which are the Gentian, round Birthwort, Bay Berries, and Myrrh, all reduc'd into Powder, and made up with Honey, and Extract of Juniper into an Electuary. This Treacle, tho' of a small Price, is not wanting in good Qualities, being very uleful for all Sorts of Cattle; some People call it, the Poors Treacle, or German Treacle.

Along with this Medicine we have brought from Montpellier a Treacle Water call'd fo, because Treacle is the Basis of it; and by reason its Virtues, in some Measure, are like it. The Montpellier Treacle Water of Bauderon make thus; take fine Treacle, three Ounces; Roots of Tormentil, Angelica, Vipers Grass, Dittany of Crete, and Sassafras, of each, two Ounces; Bole, one Ounce; Juniper-Berries, Citron-Seeds, Carduus Benedictus. Sorrel and Puflane-Seed, of each half an Ounce; Betony, Marygold, Balm, Water Germander, Borrage and Bugloss, of each one Handful; fine Cinamon and Mace, of each, two Drams; Vinegar of Roses, made of white Wine, two Pounds; Juice of Citron and Verjuice, of each, fix Ounces; chuse and prepare all your Druggs according to Bauderon's Dispensatory; and from thence, by a Glass Alembick, you may draw a clear Water, of a strong Smell of Treacle, having the same Vertues with it: but the small Power there is in Vinegal Juice of Citrons and Verjuice to difsolve and raise the Virtue of the Aromaticks in Distillation, made the Seur de Pelerin lay aside this Prescription, and follow that which Mr. Charas has given us in his Dalbantarony Page 1030, which will appear much more reasonable.

Mr. Charas's Treacle Water

Take Roots of Gentian, Angelica, M. and added other Things more necessary, the fler-wort, Valerian, and Contragerva, of and candied, but dry, fine Cinamon, Cloves this Work. and Juniper-Berries, of each one Ounce; Water Germander, and St. John's Wort Flowers of each, one Handful: Spirit of Wine, Wallout and Carduus Water, of each one Quart; fine Treacle, four Ounces; line Thiftle, Master-wort, Angelica, Bidraw from thence a very odoriferous Water, more efficacious, and better to keep than the former: It is very proper to refift all Poisons, and prevent. Infections; the Dose is from one Dram to four, in a convenient Liquor: Likewise it is given sometimes alone, in a small Quantity. Mr. Charas says, that there is a Treacle Water made, by diffolving of Treacle in equal Parts of Spirit of Wine, and Vinegar distill'd; so they make Treacle Vinegar, fometimes, only by disfolving it in strong Vinegar, which is us'd against the Infection of the Air, and to wash the Hands,

Temples, and Nostrils with. Besides Treacle Water; at first, when the Roman Orvietan was known in France, we had it from Rome, and some other Parts of Italy, as Orviette, from whence it takes its Name; but fince that the Sieur Contugi came to Paris, and under Pretence of the King's Permission, took upon him the whole Management of this Medicine, the Druggists have left off to trade in it, either thro Fear, or because the Profit to be got by it was not confiderable enough: But fince they understood, that when the King gave his Authority to the Sieur Contugi, to fell and tradein Orvietan at Paris, he did not intend to exclude the Druggists or Aporhecaries at Paris from making it, as has been declar'd by an Arrest, least he shou'd deprive France of a Remedy so valuable and necessary for the Publick. But fince the Sieur Contugi and his Wife are both dead, I have thought fit to give the World a true Description of it, as well as I have done of other Receipts, which I have acquir'd in different Parts where I have been; but being rob'd of a great many of my Papers and Memoirs, I was hindred in my Attempt, and plung'd into a vast Expence, which I was oblig'd to in the Impression of this Book, besides the great Charges I had been at for fixteen or fevenall Sorts of Tryals I cou'd upon this Subject, eaten, to which they are very subject; they

two Ounces: Citron and Orange-Peel, not agreeable to my Profession and the Design of

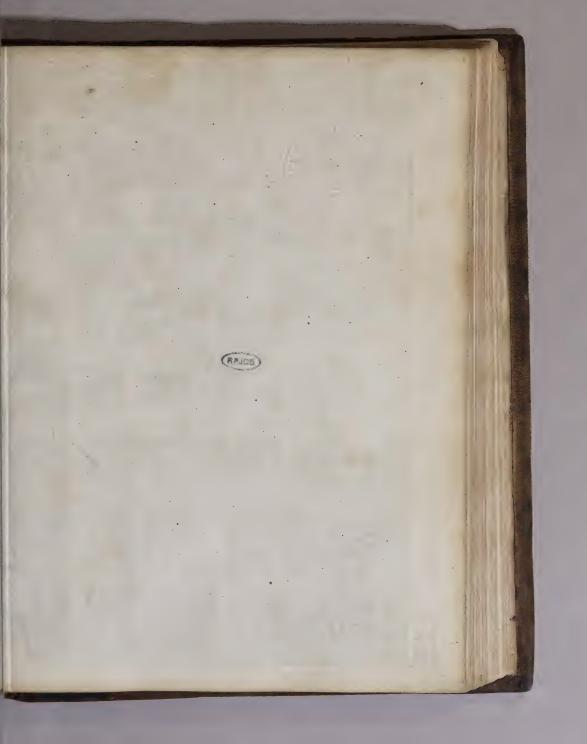
Orvietan.

Take Roots of Vipers Grass, Cartumen, Birth-wort, Contrayerva, white Dittany, Galingal, Gentian, small Arabian Costus, true Acorus, Macedonian Parsley-Seed, Leaves of Sage, Rosemary, Goats Rue, Carduus Benedictus, Dittany of Crete, Bay and Juniper-Berries, of each one Ounce; Cinamon and Cloves of each half an Ounce; dry'd Vipers, with their Hearts and Livers, old Treacle, four Ounces; white despumated Honey, eight Pounds to the whole Druggs; to make it into a Body: by consulting of Bate's Pharmacopaia, you may see how far this Recipe differs from that which he fays, Sir Robert Tabbor coumunicated to him, and which we may suppose he brought from France.

29. Of the Sea Skink.

THE Sea Skink is an amphibious Anîmal, pretty much like a Pomet. small Lizard: This Creature is about half a Foot long, and an Inch Diameter, having a sharp Nose, being cover'd with Scales; it has two little piercing Eyes, with the Mouth divided to the Place where the Ears shou'd be seated had this Creature any; it has a great many little white and red Teeth, and goes upon four Feet, little more than an Inch high, which are very like those of an Ape; it is cover'd with little round Scales, different from those of the Head, that are long and large; they are greyish, inclining to brown upon the Back, and of a Silver Grey under the Belly; the Body of this Animal grows still smaller to the End of the Tail like the Viper's.

There are a great many of these little Skinks to be found in the Nile in Egypt, from whence they are brought us by the Way of Marseilles, only the Entrails are taken out, and the small End of the Tail is cut off: teen Years in gaining a particular Know- Chuse such as are the biggest, longest, heaviledge of the scarcest Druggs, and making est, most dry and entire, and least Worm-





are reckon'd proper to restore Warmth in old an half; Spanish Wine a sufficient Quantity; Age, and Decays of Nature, to encrease the fine Honey, nine Pounds, eight Ounces, and Semen Virile, and are one of the Ingredients two Drams. of Mithridate.

The Reverend Father Du Tertre says, that he saw not only in Guadoloupa, but likewise in other Isles, the true Skinks, altogether like those that are brought from Egypt. It is a Sort of Lizard which, by the Inhabitants of Guadaloupa is call'd Mabouya, and in some other Isles the Land Pike, but I know not for what Reafon; I believe rather it may be called fo, because this Animal is almost always at Land. and when they cut off his Feet, he is just like a Stake that they drive into the Ground, and not a Pike, as the Sieur Rochefort wou'd have it; who, to make it agree with the Name he has given this Animal, writes with all the Affurance and Falfity imaginable, that it has the perfect Shape Skin and Head of our Pike. These Skinks are more fleshy than the other Lizards, the Tail thicker, and the Legs and Feet to short, that they creep upon the Ground; their Skins are cover'd with an infinite Number of little Scales, like those of Snakes, but of a yellow Colour, filver'd, and shining, as if rubb'd with Oil; their Flesh is good against Poison, and the Wounds of envenom'd Arrows.

Of Mithridate.

Take choice Myrrh, Saffron, white Agarick, Ginger, fine Cinamon, Indian Spicknard, Frankincense, and Thlaspi, or Treacle-mustard-Seed, of each ten Drams; Marsilian Hartwort, Balsam of Judea, Camels Hay, Arabian Stæchas, Costus, Gal-banum, Turpentine, long Pepper, Castor, Juice of Hypocistis, Storax in Tears, Opoponax, and Indian Leaves, of each one Ounce: Cassia lignea, Poley Mountain, white Pepper, Water Germander, Candy Carrots, Fruit of the Balsam Tree, Troches of Ciphi and Bdellium, of each seven Drams; Celtick Spicknard, Gum Arabick, Macedonian Parsley, Opium, the lesser Cardamom, Fennil, Gentian, red Roses, and Dittany of Crete, of each five Drams; Aniseed, the true Acorus, small Valerian, and Gum Serapin, of each three Drams; Spignel, Acacia, and the Sea Skink, Sr. John's-Wort Seed, of each two Drams and

Of Troches of Ciphi.

Take fat Raisins, Turpentine, choice Myrrh, Camels Hay, fine Cinamon, Calamus Aromaticus, Bdellium, Spicknard, Cassia lig-nea, Cyperus, Juniper-Berries, Rose-Wood, Saffron, fine Honey, Spanish Wine: The Way of Compounding Mithridate differs nothing from that of Treacle; and as to these Troches, the Dispensatories of Bauderon and Charas, show us the Manner of preparing them.

Scincus Marinus, or the Skink, is a little amphibious Animal, re- Lemery. sembling a small Lizard, or rather

a little Crocodile, as long as one's Hand, fometimes thicker than an Inch, cover'd with little Scales of a Silver Colour, especially under the Belly, having brown Streaks cross the Back; the Head is oblong, and thicker over the Jaws than the Neck; the Eyes very little; the Nose sharper than that of the Lizard's, cover'd with Scales as the rest of the Body is; the Mouth is cut in very deep, fet with a great many little white Teeth; some Authors call it Crocodilus Minor, or the little Crocodile; it is bred in the Nile, and several other Paris of Egypt, and feeds upon aromatical Flowers; it never grows bigger than as we have it brought to us: They open the Belly and take out the Entrails, then fill it with Poley Hair, or some other dry'd aromatical Herbs, in order to preferve it: This Creature affords a great deal of volatile Salt and Oil; some People prefer the Kidneys before the rest of the Body; but there is no Difference in the Virtue of any of them.

20. Of Silk-worms.

THE Silk-worms are little Insects, whose Origin is altogether fur- Pomet. prifing, as well as the various Shapes and Changes they undergo; several Authors have writ of them; and among the reft Mr. Isnard, in a little Treatise of his, at the 254th Page, accounts for their Original, thus: " At the Time when the Mulberry-Vol. II.

" Leaves are ready to gather, which shou'd the Name of Raw-Silk, or rough as it comes ". be five Days after their Budding, in the Be- from the Silk-worm. This Silk, after it is redu-"which is almost at Calving, and feed her is brought into several Compositions, as Con-" wholly with Mulberry-Leaves, without fections of Alkermes, Hyacinth, &c. They " giving her any Thing else to eat, of Herbs, Hay, or the like, 'till the has calv'd; and " this they continue for eight Days longer; " after which they let the Cow and Calf " both feed upon this fome Days together, " without any other Mixture, as before: " They kill the Calf after it has been fill'd, " or fatiated with the Mulberry-Leaves, and "the Cow's Milk; then chop it to Pieces " to the very Feet, and without throwing " any thing away, put all together, the " Flesh, Blood, Bones, Skin and Guts, into " a wooden Trough, and fet it a Top of " the House in a Granary, or Garret, 'till " it is corrupted; and from this will pro-" ceed little Worms, which they lay together " on a Heap, with Mulberry-Leaves, to " raise 'em afterwards, just as they do those " which are produc'd from the Eggs; and "these Silk-worms are abundantly more " fruitful than those from the Eggs; so that "those who deal considerably in them, ne-" ver fail every ten or twelve Years, to raise " them this Way,

There are so many Particulars, relating to the Management and Breeding of these little Creatures, that it wou'd be troublesome to to several Parts of the Body, and chiefly dwell upon this Subject; besides it has no these where Cupping Glasses cannot be easily Relation to my present Purpose; and since Mr. Isnard has writ an intire Book upon it; I shall refer to it those who wou'd know a Commodity fo valuable, that formerly those only of the best Quality were cloathed with it. There are several Colours of Silk; as white, yellow, and the like; these different Silks are found upon little Clue's, of the Size and Shape of a Pidgeon's Egg; and by the Means of warm Water, and certain Windles, they wind it into Scains, and then dye it of what Colour they please.

I shall not detain you with a Description of all the different Silks that we have brought us from feveral Parts, contenting myfelf only to fay, that what is us'd in Phylick is the is wound up naturally, and without passing

ginning of the Spring, they take a Cow, ced to Powder, which is not very easie to do, use likewise Silk dyed Scarlet, to give to Women in Child-Bed, instead of Alkermes. Several Authors fay, that Silk has the Virtue of making the Heart pleasant, and the Spirits brisk, and to cleanfe the Blood. Those who use the Balls of Silk ought to take Care, before they reduce it into Powder, to cut it afunder, and take away the Worm that is within, fometimes fresh, and fometimes rotten, with the first Skin that wraps it about, as not fitting to be taken inwardly; and those who wou'd have the best, use nothing but the Raw Silk, because the rest is nothing but Dross, or resule Stuff: It may be reduc'd to Powder, by cutting it very fine, so that it will pass thro' a Sieve; for to bear it, twill be a tedious Work, besides it will lose half. As to the Confections of Alkermes and Hyacinth, the scarlet Silk ought to be prefer'd to all other, tho' almost all Authors recommend the Raw Silk, which is that that is white, or of a Gold Colour, and which has not been dyed.

There are feveral other Reptiles which we fell, as the Leeches which are found in Ponds and Ditches, and which the Surgeons apply fix'd. There are several Sorts of Leeches; the best of which are the least, that have small Heads, reddish Bellies, with Streaks further. These little Animals supply us with upon the Back, and of a Gold Colour, that are to be met with in clear running Water, and throw away the venemous Sort, which have thick Heads, and are of a green Colour, that shine like Glow-Worms, being ftreak'd with Blue, and are found in muddy Waters; for instead of relieving the Patient, they will cause Inflammations, Apostems, Fevers, and malignant Ulcers, that are sometimes incurable. To keep these Leeches, put 'em into clean Water, that must be renew'd from Time to Time, to which some will add Sand aud Earth.

We fell, besides these, the Powder, vola-Natural; that is to say, the Ball, or what tile Salt and Oil of Toads, as well as the Stone that is found in the Head of the large thro' hot Water, to which the Ancients gave and old Ones, to which the Ancients attribu-

ted great Virtues; and Mr. Charas treats of dearer than that which we have from Moneit very largely, in his Chymical Dispensatory, Page 794; to which those who defire to know further may have Recourse. There are some who rank the Toad-Stone among the precious Stones, not only because it is scarce to be met withal, but because it is endowed with so many excellent Virtues, being proper to relift all Sorts of Poison: The White is the most valued, tho' those which are of another Colour, are endow'd with no less Vermes: They impose upon the Buyer, inflead of the Toad-Stone, a little round or longish Stone, that is found in several Parts of Europe.

We sell likewise volatile Salt, Oil and Powder of Millepedes, or Hog-Lice, to Compound is that of Mathiolus, which is Leaves and Seeds of St. Fobn's Wort, Germander, Mountain Calamint, Carduus be-Vervain, Dittany of Crete, Zedoary, white Dit- you have Eggs when the Animal is dead. tany, Genrian, Tormentil, round Birthwort. Reed, long Cyperus, white Sanders, Rubarb, Myrrh, Aloes, Indian Nard, Saffron, Treacle, Mithridate and white Wine; mix all together, and make an Oil: The Doses Poisons; or in Bauderon, or Charas's Dispenfatory, whereto those who defire to make it may have Recourse. This Oil is one of the most difficult Compositions in Pharmacy, because of the different Mixtures, and the Difficulty of getting the Scorpions alive from

pellier, and other Parts.

Bombyx, five Vermis lanificius, the Silk-worm, is a Kind of Ca- Lemery. terpillar, or a Worm as long and thick as one's little Finger, divided from one Part to another in a Sort of Rings; having under them usually fourteen Feet, fix in the fore Part, which are very small, and eight on the hinder Part, which begin after the third Ring; the two last are much larger than the rest; the Shape of 'em are ugly to look upon; their Substance very moist and viscous; they are cloath'd with a very thin tender Skin, easie to break and wast away. of a brown or whitish Colour, with some Spots. It is produced in the Spring, from a litwhich Mr. Charas affigns great Virtues, as the round Egg, that is like a Poppy Seed, is well as to the volatile Salt of Cantharides, fed with Mulberry Leaves fresh gather'd; Earth-Worms and Ants; as may be seen in for if they are decay'd, they kill the Silkhis Chymical Pharmacopwia; as likewise worms; when they are grown to their full the Oils of Scorpions, Simple and Compound, Size they eat no longer, but spue out of their which we have ready made from Provence Mouths a Kind of thick, gluey, or viscous and Languedoc, and for which we have a Slaver or Foam, which they stretch, extend, better Sale than those made by the Apothe- and work to a Silk Web, and then wind into caries at Paris; and which, without Dif- a Clue, that is fometimes white, and fomepute, are much better, because the Scorpions times yellowish, wherein it is wrap'd, and are more frequent in these Provinces. The lies several Days still working 'till it dies; Oil of Scorpions simple, is only made of but if you do not throw this Clue into Water Scorpions, and Oil of bitter Almonds: The to draw off the Silk, it will quit this thick Cloathing, pierce thro' the Clue, and arise a made of the following Druggs, viz. of fine, white, gawdy, active Butterfly; and Scorpions, old Oil Olive, the Flowers, if you leave after this Manner a Number of them, you will have a diverting Sight, to see the Male and Female Butterflies careffing, nedictus, Water Germander, leffer Centory, and making Love; from whence, afterwards,

The Silkworms yield Abundance of Flegm Storax, Benjamin, Juniper-Berries, black and Oil, but little volatile Salt; they are Cummin Seed, fine Cinamon, the odoriferous reckon'd very good to cure a Vertigo, if after they are dry'd and powder'd you apply the Powder upon the Head, being first shav'd. The Silk upon the Clue, before it is cast into the Water, is call'd Sericum crudum, or you will find in Mathiolus's Sixth Book of Raw Silk; it ought to be cut afunder to uncover the Worm within it; this yields a little Flegm, a good deal of Oil, but very little volatile Salt and Earth; it is thought proper to recruit the Spirits, and purifie the Blood, being taken in Powder. Some People hold, that if you feed a Calf with Mul-Provence or Languedoc, which is the Reason berry Leaves, then kill and cut it to Pieces, why that which is made at Paris, is fold and expose it to the Air, upon a House, it will

Confirmation. In the Parts where they trade in Silk, as Savoy, Languedoc and Provence, they put their Silkworms in Chambers, where they are dispos'd in Repositories or Niches, where they make their Clues; good Quantities of which they preserve on Purpole to have Eggs, and they throw the rest into warm Water, wherein the Worms die.

21. Of the Whale.

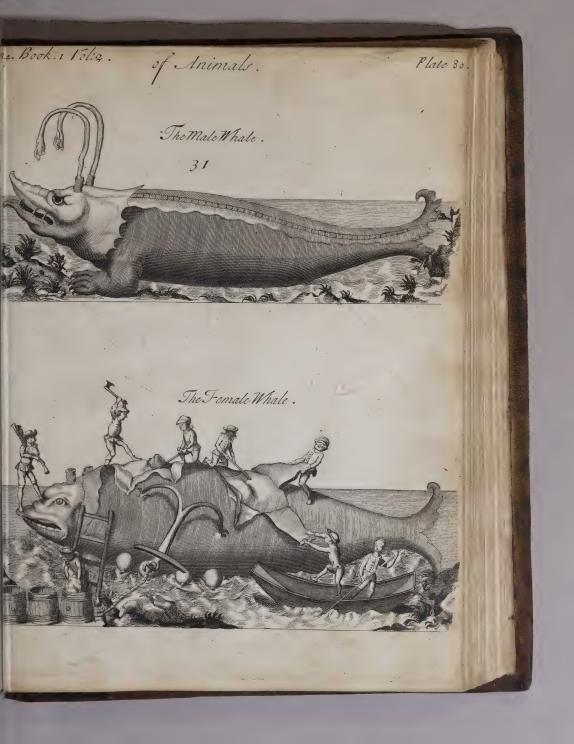
THE Whale is the largest of all Fish, and is to be found in the Northern and North-West Seas; the Skeleton of one was shown at Paris in 1658, whose Scull was between fixteen and seventeen Foot long, weighing four thousand six hundred Pounds; the Jaws ten Foot wide, and fourteen Foot long, weighing each eleven hundred Pounds: The Fins which look like Hands, weighing each fix hundred Pounds. The Joynts of the Back, from the Head to the End of the Tail, forty-five Foot long; the first Joynts weighing fifty Pounds, and the others less, according as they came nearer the End. I shall not trouble myself to give an Account of all that relates to that Animal, or the Manner of taking him, because several Authors have treated of it; but I shall only say, that there are two Sorts of Whales; the one is call'd Cachalot, which differs from that which is call,d the Whale, in that the Mouth of the Cachalot is furnish'd with little flat Teeth without a Beard or Whiskers, which is contrary to that which bears the Name of the Whale, which has nothing but Whiskers. 'Tis from the Fat or Lard of these Animals that they draw Whale Oil, which is a very great Commodity, especially in Times of Peace, by Reason of the great Use they have for it in France, as well for burning, as several other Uses, wherein it is very necessary. We have two Sorts of Whale Oil comes to Paris, the best of which is that which we call Oil of the great Bay, which is by the French made of the Fat immediately after it is taken from the Whale, whence it comes that the French Oils do not smell so ill as those made in Holland, because the Dutch do not make their Oils from the Fat fo foon as it is drawn from the Whale, but bring it into Holland to be melt-

produce Silkworms; but this Thought wants ed; wherefore we ought to prefer the French Oils to those of Holland, which are easily known, because the Dutch are red and stinking, and yet are clear, and have little of the Hogoo. The great Quantities we have of Whale Oil, comes from the Northern Sea, especially Greenland, from whence the Hollanders are supplied.

Of Sperma Ceti.

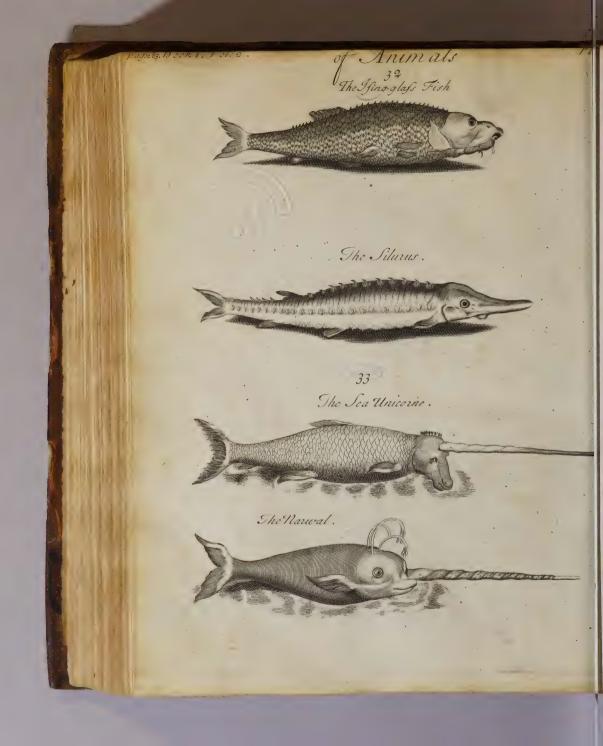
The Sperma Ceti, according both to the Ancients and Moderns, and which tho' improperly is call'd so at this Day, is the Brain of a Sort of Whale call'd Byaris, and by the People of St. John De Luz Cachalor: This Animal is nam'd, by some, the male Whale, and in Latin Orea; it is about twenty-five Foot long, and twelve Foot high; each of the Teeth weighing one Pound, which are very useful for several Sorts of Works: These Creatures are very common at Cape Finister, on the Coast of Galicia, and in Norway; in the Year 1688, there was one taken by a Spanish Sip, that carried it to St. Sebastians, from the Head of which was taken twenty-four Barrels of Brain, and from the Body ninety-fix Barrels of Far: They ought then to be undeceiv'd who believe that Sperma Ceti is any thing else but the Brain of the Cachalor; and I can affirm this with Certainty, not having only feen this prepar'd, but having prepar'd it myself.

This Sperma Cets is usually prepar'd at Bayonne, and St. John De Luz; and this Work is so rare in France, that there are not above two Persons at the latter Place who know how to prepare it. Those who perform this take the Brain as aforefaid, and melt it over a gentle Fire; then they cast it into Moulds like those wherein they refine Sugar; and after it is cool'd and drain'd from the Oil, they take and melt it again, and proceed after the same Manner, 'till such Time as it be well purified and very white; then with a Knife, made for the Purpole, they cut it into Scales or Flakes, just so as it appears when brought to us. As this Commodity is of some Consequence, by reason of its Price, I must tell you, you ought to chuse such as is in fine white Flakes or Scales, that are clear and transparent, of a fishy Smell; and take Care that it be not augment-









often, which is easie to diftinguish, as well from the Smell of the Wax, as because it is very thin, and of a more unpolish'd White; they ought likewise carefully to observe, that Scruples. what is made of the Brain of the Whale, is very apt to turn Yellow, as well as that which comes from the Fat; for we have no Commodity which is so sensible of the Air as this, which is the Reason why it ought to be carefully kept in Glasses, or in Barrels, close stop'd from the Entrance of any Air, least this Drugg turn yellow. Its Use is for Ladies of Quality; as well for making of Paint, as for Pasts to wash the Hands withal: Women in Child-Bed sometimes take of it, to a Spoonful, to remove After-pains, and affift their Cleanfings; and it is an excellent Remedy in Bruises, Inflammations, Pleurisies, or the like, taken with Syrup of Violets, Oil of sweet Almonds, &c.

Balana, sive Cete, sive Cetus, or Lemery, the Whale, is a vast Fish, bred in the Northern Seas, whereof there are many Kinds; from the Flesh of this they make the Whale or Train Oil; and from the Brain of a Sort of male Whale, which they call the Orca, Byaris, or Cachalot, is made, what we call Sperma Ceti. The great Fish is common along the Coast of Galicia in Spain: When the Brain is separated from the Head, they melt it by a gentle Fire, which they cast into Moulds to cool; then they separate the Oil from the Water, and so repeat the Work 'till the Matter is clear and white; after which they divide it into Scales or Flakes for Sale; this was call'd Sperma Ceti, because the Ancients believ'd that it was the Seed of the Whale that floated on the Sea; several Moderns have rejected this Opinion, but wou'd establish another, which is as foreign from the Truth as the former: They say that the Sperma Ceti is a Sea Bitumen, or a Kind of Sea Froth, that is driven by the Waves to and fro. It is aftonishing that the Origin of this has been a Secret so long; for it is not above two and twenty Years fince it was known that this was folve; then the gluey Liquor is strain'd and drawn from the Head of the Whale. The fet to cool; being cold, the Fat is carefully Sperma Cees is resolutive and mollifying; they taken off, and the Liquor itself is boil'd to a use it in Pomatums to fosten and smooth the just Consistency, which is cut into Pieces, Skin; in Ointments, or Liniments, to dif- and made into a Twist, bent in Form of a folve the Hardness of the Breasts; in In- Crescent, such as are commonly sold, then

ed with white Wax, as it happens but too jections of the Womb to soften the same, and it is sometimes given inwardly, to correct the Acrimony of Humours in the Breast or Belly. The Dote from half a Scruple to two

32. Of the Fish-Glue, or Isinglass.

THat which we call Fish-glue or Ifinglass, the Latins, Gluten Alcanak, the Greeks, Ichthyocolla, and the Arabs, Alcana, is the mucilaginous Part of a Fish, whose Back is full of little white Scales that are prickly, and rang'd in Order, commonly found in the Moscovy Seas, which is the Reason that almost all the Isinglass we have from Holland, is brought thither from Archangel, which is the Place where is kept a famous yearly Market. Several who have writ of this Fish, whereof they make the Isinglass, and among others Rondelet, have said that it was without Bone, which is the Reason why it is call'd the Fish without Bones. They have pretended also, that it has no Prickles, which is very wide of the Truth, because the Back of it is so well furnish'd with them, that there is not any Fish, how strong so ever, will dare to bite it ; and the Scales, tho' they are small, are very sharp, as represented in the Cut, which answers to the Original which I have in my Hands. The Ancients pretend likewise, that it was of the ceraceous Kind, that is to fay, that it resembled in Nature and Bulk the Whale and Dolphin, because the Head is very thick, beavy and large, the Mouth very long and open, and that there grows to the upper Jaw a certain long Excrescence, hanging down like a Beard. As to the Flesh it is sweet and gluey, and consequently of little Relish, if it be not salted some Time before it is eat.

As to the Manner of Making the Ifinglass, the Skin, Tail, Fins, Stomach and Guts of this Fish are taken and boil'd in Water 'till all of them be dissolv'd, that will dis-

huag?

hung upon a String, and carefully dry'd. be met with in our Rivers; but because of That which is clearest and whitest is best; and which being boil'd in Water and Milk. will almost all dissolve; it is chiefly made in Moscovy; and that which is call'd the Patriarch Sort, which is four Square, very thin and white, almost transparent, is the choicest; the next is the Czar's Sort, which is the large Horse-Shoe, or twifted Kind, that is in thin Rags, and clear: A meaner Sort is that which is yellow and brown within, and that in square Books or Cakes, is the worst of

The Use of Isinglass is very common in France, but not in Physick; for I believe. besides what is us'd in making the Diachy-Ium Plaister, that all the Apothecaries in Paris scarce use a Pound in a Year; but it serves the Wine-Merchants, and Vintners, who use it to fine their Wines; for which formerly they were blam'd, tho' without Reason; for it is a very great Error that has been receiv'd, that Ifinglass was a poisonous Drugg, when nothing is so certain as that it has no ill Quality whatsoever; but the Fish from whence it is made, is one of the principal Foods of Moscovy, the Jelly being very wholesome; for the Flesh of the Back of this Fish tastes like Veal, and is very nourishing; the Belly eats like Pork, being vety sweet and good. Ifinglass is of a healing and strengthening Property; us'd in Broth and Jellies, it Arengthens the Back, ftops a Dysentry and continued Purging; it is good in Gonorrhea's, and the Fluor albus; being of an alcalious Nature, it absorbs Acids, and eases the most inveterate Pains of the Stomach. The necessary Uses to which this is put, are in feveral Sorts of Silk Works, to give a Lustre to Ribbons and other Silks; to whiten Gawzes; it is a principal Ingrehave from England, Holland, and other Parts, a Sort of Isinglass folded in little Books. very scarce Fish in France; it is sometimes to perience of it.

its Use, and its Rarity, and its being excellent Meat, these who find 'em sell 'em for three or four hundred Livers.

Ichthyocolla, Isinglass, or Fish-Glue, is a Paste or Glue made of Lemery. the Skin, Fins, Tail, Entrails, Nerves, and other mucilaginous Parts of a great Sea Fish, call'd a Huso, or Exossis, from being without Bones, that is twentyfour Foot long, and weighs four hundred Weight; it is usually met with in the Seas about Moscovy, in Hungary, and other Parts of the Danube. They make the Ifinglass by cutting all the Parts of the Fish in Pieces, which they steep in hot Water, and then let boil over a gentle Fire, 'till it is dissolv'd, and reduc'd into a Jelly; they spread this upon Instruments made for that Purpose, that it may dry, and be made into a Kind of Parchment: when it is almost dry, they usually roll it up into Wreaths of different Shapes and Sizes. The Dutch furnish us with almost all we use, [which is imploy'd chiefly as Pomet has laid down.]

33. Of the Narwal or Sea Unicorn.

THE Narwal, so call'd by the Islanders, and by some others, Pomet. Rhoar, by us the Sea Unicorn, is a large Fish, some reckon to be a Sort of Whale that is found plentifully in the Northern Seas, especially along the Coast of Island in Greenland. This Sea Monster carries at the End of his Nose a white weighty Horn, that is smooth, and of a spiral Figure, fuch as is to be feen at Sr. Denis's in France, and some other Places; it is of different Sizes and Weight, as may be seen in the Cadient to counterfeit Oriental Pearl. We binets of the Curious; as that of Mr. Morin, Physician to the late Mademoiselle de Guise, which I have feen and handled, and is reprethat is of small Use in France, because it is sented in the Figure. Mr. Charas told me very hard to diffolve, and that it will never he had feen one longer and thicker than that turn white: Some Persons have affur'd me, in the Treasury of St. Denis. They are the that it was made of the Remainder of that Pieces of this Horn, that we fell at Paris, which is made in little Wreaths; and others as they do elsewhere, for the true Unicorn's will have it, that it comes from the mucila- Horn, to which some People assign large ginous Parts of a Fish some Authors call Virtues, which I shall neither authorise nor Silurus, or Sturio the Sturgeon, which is a contradict, having never had sufficient Ex-There

There is another Fish, besides that they the Eyes being of the Size of an Hen's Egg 5 give the Name of the Sea Unicorn to, which the Apple of the Eye was of a Sky Blue, 1644: This Unicorn, fays he, pursued a little Fish with that Violence, that he threw himself out of the Depth of Water necessary to swim in, and ran himself upon a great Bed of Sand, where half of his Body being uncover'd, he cou'd not recover himself to get into the Deep again, and by that Means the Inhabitants of the Island took him. This Fish was about eighteen Foot long, being of the Thickness of an Hogshead; he had fix great Fins, that at the Ends were like Oars; two of them were placed instead of Ears, and the other four along the Belly, at equal Distance, being of a Vermilion Colour, and all the Body was cover'd with large Scales, as big as a Crown Piece, which were of a Blue, that appear'd to be spangled with Silver; near the Neck the Scales were more compact and close, and made a Sort of Collar; the Scales under the Belly being yellow; the Tail was forked, the Head a little thicker than that of a Horse, and almost of the same Shape; it was cover'd with a hard brown Skin: And as the Unicorn has a Horn on the Forehead, this Sea Unicorn has one perfectly fine, nine Foot and an half long, that stands directly on the Forehead; it is exactly straight, and grows taper from the Front of the Head, or Basis of the Horn to the Tip, where it is fo sharp, that with Force is will drive thro' the hardest Body: The thick End was about fixteen Inches Circumference; and from hence to about two Thirds of this wonderful Horn, it was fashion'd like the Screw of a Preis, or rather waved in Form of a twifted Column, faving that the Furrows were still lessen'd until they became altogether smooth about four Foot two Inches from its Original; the Bottom was cover'd with an ash-colour'd Skin, that had on it a little short Hair as foft as Velver, of a Fillemot Colour, but underneath was as white as Ivory: As to the other Part that appear'd altogether bare, it was naturally smooth, and of a shining Black, mark'd with some fine white and yellow Streaks, and so hard, that a good File could scarcely touch it: It has no Ears crected, but two great Gills as other Fish;

are met withal in different Parts of the World. enamel'd with Yellow, and surrounded with Mr. Dumantel says, he saw a prodigious one, a Vermilion Circle, that was succeeded by in an Isle near St. Domingo, in the Year another very clear one, that shin'd like Crystal; the Mouth, like that of the Horse, was cleft and fet with several Teeth; those before being flat and sharp; and the others in the Jaws behind, large, and raifed with little Bunches; there was a Tongue of a proportionable Length and Thickness, which was cover'd with a rough red Skin.

This prodigious Fish had besides, upon its Head, a Kind of Crown rais'd above the rest of the Skin, two Inches or thereabour, made in an oval Form, and ending in a Point Above three hundred People of the Isle eat plentifully of the Flesh of it, and found it very delicate; it was larded with a white Fat, and being boil'd it parts into Flakes like Cod-Fish, but has a much more

favoury Tafte.

We ought to undeceive those who believe that what we now call the Unicorn's Horn, the Latins Unicornis, and the Greeks Monoceros, was the Horn of a Land Animal, whereof Mention is made in the Old Testament, fince it is nothing else but the Horn of the Narwal, which, as to the Choice of it, ought to be the whitest, largest, and heaviest. Some Time ago these Horns were so rare, that Mr. Racq, a Physician at Florence, said that a German Merchant sold one of 'em to a Pope for 4500 Livers, which is very much different from what they are at prefent, fince wecan buy the very finest at a much easier Rate.

Narwal, Rhoar, or the Sea Unicorn, is a very large Fish, that car-Lemery. ries upon his Front a Horn of five

or fix Foot long, that is heavy, white, smooth, and twisted, being of a spiral Figure, and hollow within, very like Ivory; he carries this for his Defence, and with it will attack the biggest Whales. This Horn affords a great deal of volatile Salt and Oil; is cordial, sudorifick, and proper to relife Infections, and cure Epilephies: The Dole is from half a Scruple to two Scruples: They wear it also in Amulets hung about the Neck, to preserve em from infectious Air. These who keep these for Curiofities, have the Horn entire, and choose the longest and most weighty.

34. Of the Sea Horse.

THE Rivers Nile, Niger, and Pomet. other Parts of Africa, breed us an Animal that has some Resemblance to an Ox, which I thought proper to give you the History of, upon Account of the Teeth which we fell. This Animal has nothing of the Likeness of a Horse; but as to his Size rather looks like an Ox, and his Legs are like the Bear's; he is thirteen Foot long, four Foot and an half broad; the Belly is rather flat than round; the Legs are three Foot about, and each Foot is a Foot broad, as the Head is two Foot and a half in Breadth, three Foot long, nine Foot about, and looks very thick in respect of the rest of the Body: The Mouth is a Foot wide, the Nose fleshy, and turns up; the Eyes are fmall; the Ears little and short, not above three Inches long; the Hoofs are cleft into four Parts, and the Tail is like that of a Hog; the Nostrils are winding, and about two Inches and an half deep; the Muzzle having some Resemblance with that of the Lyon or Cat, and is hairy, tho' there is none upon the rest of the Body: It has fix Teeth in the under law; and the two which are at the End are half a Foot long, and two Inches and an half broad, and half a Foot thick : On each Side one may see seven Grinders that are short, but thick; it has as many in the upper Jaw, which it moves as the Crocodile ; its Teeth are as hard as a Flint Stone. The Ancients believ'd that this Animal vomited Fire, when he grinded his Teeth one against the other.

The Ethiopians, and other People of Africa, eat the Flesh of them, tho' they are an amphibious Creature, living both on the Land and in the Water. Father Vandenbrock says, he saw sour Sea Horse feeding in the Country of Lavango, during his Journey to Angola, which were like huge Buffalo's; their Skins were very shining; their Heads like a Mare's; their Ears short, and their Nostrils large; they having two Tushes in their Mouths like the Boars. Of all the Parts of this Animal, there is nothing us'd in France but the Teeth, by Reason of their Whiteness and Hardness; tho' Mathiolus

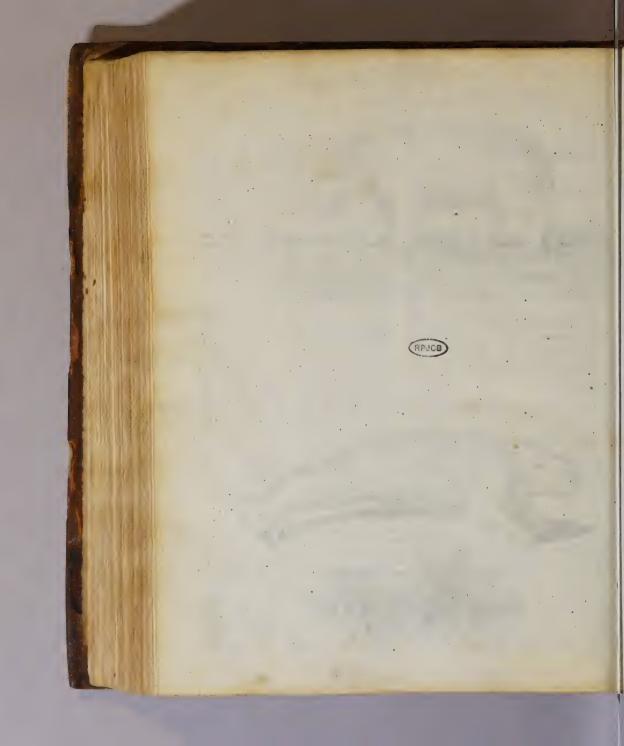
fays, that the Ashes of the Hippopotamus, or Sea Horse, incorporated with liquid Pitch, or other sat Body, will make the Hair grow: The Tooth worn, or a Ring made thereof, helps the Hemorrhoids, and easeth the Tooth-ach; a Ring made of the Pizzel, and worn, is said to cure the Cramp; the Testicles have the Virtue of Castor.

Hippopotamus, or the Sea Horse, is a four-footed Animal, as big as an Lemery. Ox: the Head is very thick, refembling more that of a Calf than a Horse; the Mouth is a Foot long, and the Jaws fet with strong hard Teeth, that will strike Fire like a Flint with Steel; and are very proper to make artificial Teeth with: These Creatures delight to live in the large Rivers within Land, that they may enjoy both Land and Water, feeding upon Fish, Flesh, Plants, Pulse: and even Men, Women and Children, if they can meet with them: The Skin is so thick, that it is able to defend from all Manner of external Violence, no Bullet or Spear being able to pierce it; the Ashes whereof take away Spots from the Skin; the Fat applied to the Pulse or Stomach, relieves against Fits of the Ague, and is emollient and nervous.

35. Of the Sea Cow.

IJACCA Marina, Manati, or the Sea Cow, according to the Rela- Pomet. tion of Father du Tertre, is a Fish altogether unknown in Europe; it is sometimes from fifteen to fixteen Foot long, and feven or eight Foot about; it has the Muzzle of an Ox, and the Eyes of a Dog; the Sight is very weak, and it has no Ears, but in their Stead two little Holes, whereinto one could scarcely put a Finger: By these Holes it hears fo exquisitely, that the Weakness of the Sight is sufficiently supply'd by the Quickness of the Hearing; under the Belly, next the Head, are two little Feet in Form of Hands, having each four short Fingers and Nails, and therefore it was by the Spaniards call'd Manaty, which is to fay, the Fish with Hands: From the Navel it grows less and less, 'till it forms the Tail, which is in the Shape of a Baker's Peal; it is a Foot and an half broad, five or fix Inches thick, cloath't





Fish has no Scales like other Fish, but is colike that of the Sea Wolf: The Flesh tastes like Veal, but it is a great deal finer, and cover'd, in several Parts, with three or four Fingers thick of Fat, of which they make Lard, as they do of Hogs; this is excellent, and several People melt it and cast it into Cakes, which they eat with Bread instead of Butter.

The Flesh of this Animal being salted loses much of its Taste, and becomes as dry as Wood; I believe that must be attributed to the Salt of the Country, which this Animal four Stones, two large ones, Kidneys; but I cannot approve this Pra-Ctice, fince this Medicine is too emetick, and acts upon the Stomach with too much Violence. The Food of this Fish is a small Herb that grows in the Sea, which it feeds upon just as the Ox does on those of the Fields; and after having glutted itself with Eating, it hunts out for the fresh Water up a Day. After having ear and drank its Fill, it lies a Sleeping with the Snout or Muzzle half out of Water, whereby she is discovered at a good Distance by the Fishermen, who presently set about to take her after the following Manner.

Three or four Men, or sometimes more, take a little Canoe, which is a small Boat, all of a Piece, hollowed out of a Tree, in Shape of a Shallop: The Rower is upon the Stern of the Canoe, where he so manages the Flat of his Oar, moving it to and again in the Water; as not only to direct the Canoe, but to move it forwards fo fwift, as if carried by a Sail before the Wind. The Spear-man, which is he that Plank, at the Head of the Canoe, holding mal makes a confiderable Part of the Food the Spear in his Hand, that is a Sort of Pike; at the End of which is fix'd a cramping Iron, or Javelin: The Third fits in the from the Terra firma, and the neighbouring Middle of the Boat to manage the Line or

cloath'd with the same Skin as the Body, and Cable, that is tied to the cramping Iron, to entirely made up of Fat and Nerves. This draw when the Beast is struck; they all keep perfect Silence, because this Creature hears ver'd with a Skin thicker than that of an Ox; so exquisitely, that a Word, or the least Noise the Hide is of a very brown Slate Colour, of the Water dashing against the Boat, is enough to awake her and put her to Flight, and disappoint the Fishermen of their Hopes. It is diverting to fee how the Spear-man trembles, as it were, for fear the Prize shou'd escape, and fancies the Rower, or Steersman, does not employ half his Strength, tho' he does whatever he can with his Hands, and keeps his Eye fixt on the Spear, by the End of which the Spear-man points out the Track he must keep, to come at the Place where the Fish lyes fast a-sleep: When the Canoe is within three or four Paces of it, the Spear-man gives is very corrofive: They find in the Head of a Stroke with all his Strength, and darts the Cramp-Iron at least half a Foot into the Flesh; and two small ones, to which they assign the the Shaft falls upon the Water, whilst the Iron Property of Diffolving the Stone in the Blad- Head remains sticking in the Beast, which is der, and bringing away of Gravel from the now half taken. When this Animal perceives herfelf so violently struck, she musters up all her Strength, and makes use of it to escape; she bounds like a Horse broke loose, cuts the Waves, as an Eagle does the Air, and makes the Sea foam, covering it with White all the Way through which she passes; believing the While the is escaping from her Enemy, whom, notwithstanding, the Rivers, where it drinks plentifully twice the carries along with her; infomuch that one would take the Spear-man for Neptune drawn in Triumph by a Sea Monster. In short, after having thus, for some Time, drawn her Destruction after her, and lost a great Share of Blood, her Strength fails her; and being as it were brought to a Bay, she is forc'd to stop short to take a little Rest; but she no sooner lies by, but the Spear-man, to bring himself nearer, draws the Line, and makes a second Stroke with more Violence than the former, at which the is able to make but sender Efforts, but in a little Time is reduced to an Extremity, and then the Fishermen easily enough drag hes a-Shore the first little Island they come at, where they put her into the Canoe, if big. ftrikes the Beaft, stands upright on a little enough to hold her. The Flesh of this Aniof the Inhabitants of those Countries: They carry feveral Ship-Loads of it every Year Isles, and as well at Guadaloupa, St. Christo-Vol. II.

they sell a Pound of it for a Pound and a

half of Tobacco.

The Stone taken from this Animal has many medicinal Uses affign'd to it, and was a Thing unknown to the Ancients; it is a whitish Stone, or rather a Bone taken out of the Head of the Manatea Fish, that is white and hard; fometimes like a Tooth, and fomewhat refembling the whitest Ivory, but much harder; it is a fix'd Alcali, absorbs Acids, eases the Pain of the Stomach, cures Heart-burning and the Colick; is good against Stone and Gravel, and to expell Urine: The Powder is made by Levigation, and is given from a Scruple to a Dram; the Calx is made by calcining it either alone, or with Sulphur and Nitre: Dose from half a Dram to a Dram, in any appropriate Liquor. Manati, vel Vacca Marina, the

Lemery. Sea Cow, is a large Sea Fish of America, of fifteen or fixteen Foot long, almost round, being five or fix Foot Diameter, of a frightful Figure; the Head is like a Calf's, but the Shour is more meagre, and the Chin thicker; the Eyes are small, and require a great Light, for the Sight is very weak; the Ears are made up of nothing but two little Holes, tho' the Hearing is very fine: The Skin is us'd to make Shoes of; the Fat or Lard, besides that the Inhabitants eat it for Butter, is a good Emollient, and discussing Unguent. The Stones taken out of the Head, which are of two different Sizes, are reckon'd emetick; tho' they are given inwardly in Powder, to twelve Grains and upwards, for nephritick Pains, and Stone in the Kidnies and Bladder.

36. Of the three Kinds of Tortoifes, viz. The Frank or True Tortoife, the Kaouanne, or great Headed Tortoife, and the Caret, or Leaft Tortoife.

Fomer. THE Figure which I have given of the Tortoise is so exact, according to the Reverend Father Du Terrie, that it would be losing of Time to give any Description of its Shape; and I shall think it sufficient to describe what is peculiar to those of the Isles, and what distinguishes them from the European Sort: We may say in general of the three Sorts of Tortoises, that

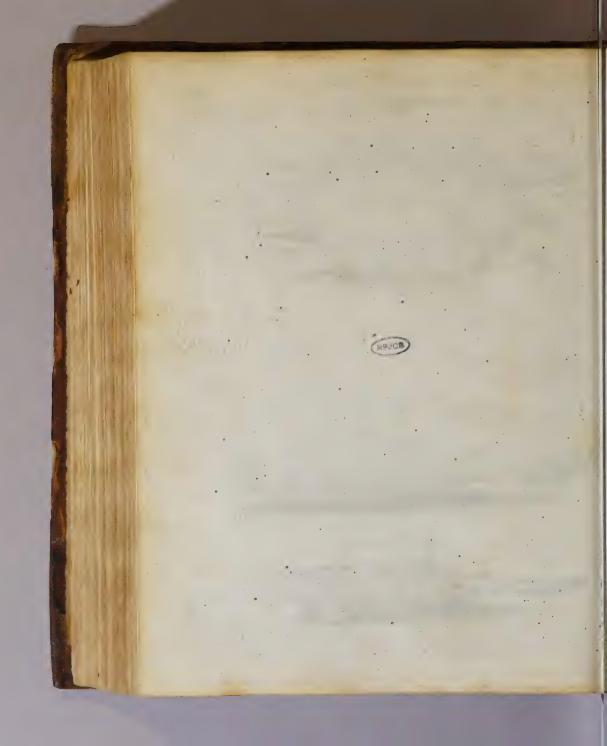
they are dull, heavy, stupid Animals, and without Brains; for in all the Head, which is as big as a Calf's, there is not found any above the Bigness of a small Bean; their Sight is extraordinary, their Bulk so large, that the Shell they carry on their Backs is fometimes five Foot long, and four broad: Their Flesh, particularly that of the Frank Tortoife, is so like that of an Ox, that a Piece of Tortoife compared with a Piece of Beef, cannot be diftinguish'd but by the Colour of the Fat, which is of a yellowish Green, There are of these Tortoifes, which taken from the Bone yield half a Barrel of Provisions, without taking in the Head, the Neck, the Feet, the Tail, the Tripe, and the Eggs, which is sufficient to feed thirty Men; besides which, they make from the superfluous Fat, fifteen or twenty Pots of Oil, as yellow as Gold, excellent for Frit-tures, and all Sorts of Sauces, especially when new; for when old it is fit for nothing but Lamps. The Flesh of the Tortoile is so full of vital Spirits, that being cut in Pieces over Night, it will flir again the next Day.

I believ'd a long Time, that the Tortoises of these Parts had three Hearts; for from the Heart, above, which is as large as a Man's, proceeds a large arterial Trunk, to which are join'd two other, as it were, Hearts, on each Side one, about the Size of an Hen's Egg, and of the fame Shape and Substance with the former; but I have fince chang'd my Opinion, and believe firmly that they are nothing but the Ears of the Heart; but be that as it will, 'tis certain that when rightly display'd upon a Table, it makes the Resemblance of a Flower-de-lis, which may be reckon'd a good Omen of the Future Success of the French Colonies in America, fince the Providence of God, which does nothing in vain, has planted, as it were, the Flower-de-lis in the Heart of this Animal, as the Hieroglyphick of this Country.

Of the Kaouanne, the Loggerhead, or great Headed Tortoise.

This differs from the true Torroife, in that the Head is much larger, in Proportion to the Body, than that of other Torroifes; and tho' it is much the largest of the three Sorts, it is notwithstanding the least esteem'd, because





cause the Flesh is black, of a Sea Smell, and Sizes of 'em, but those in America are often an ill Taste. Those who fish for the Kaymans mix it with the true Tortoife to get a Price for it, but it communicates its ill Taste to it. The Oil made from it is acrid, and fpoils the Sauces with which it is mix'd, and is only us'd when the others can't be had; however it is not useless, because it serves to burn in Lamps.

Of the Caret, or small Tortoise.

The Caret is the least of all the three Kinds of Tortoifes, the Fish is not so good as that of the Frank Tortoife, but is a great deal better than that of the Kaoiianne; the Oil drawn from it is excellent for Weakness of the Nerves, Sciatica Pains, and all cold Defluxions. I know Persons who have found it very useful for Diseases of the Kidneys, eaus'd by over straining, &c. but especially that which makes it valuable, is the Shell upon its Back that is worth ten Shillings a Pound: All the Spoil or Covering of the Cares conof which are flat, the other five hollow large ones which are a Foot high, and feven Inches broad: The fine Caret Tor-Way of raising the Leaves from the large Shell, which is properly the Tortoife's House, is by making. when all the Flesh is taken out, a Fire underneath; and as foon as the Heat affects the Leaves, they are eafily rais'd with the Point of a Knife. The Oil drawn from the Tortoife is hot, and efteem'd by the Natives and People of France, who nse it against cold Defluxions, Cramps, and Numbness of the Joints and Nerves.

Testudo, the Shell Fish, or Tor-Lemery. toife, is an aquatick four-footed Animal, that is very ugly in all its Limbs, but cover'd with a fine large Shell, smooth, hard, bony, oval and marbled, or stain'd with several Colours. This Creature may be reckon'd amphibious, living upon

met with of five Foot long, and four Foot broad; their Flesh is good Food, and has the Tafte of Beef, and yields a yellow Oil, very proper for the Lamp. The Europeans use the Tortoife Flesh in their Kitchens as good Meat; they abound with a great deal of volatile Salt and Oil, are proper for Diseases of the Breaft, and Confumptions in the hectick Fever; and are very restorative being eaten in Substance, or else the Broth of the Flesh. The Blood dry'd, is esteem'd in epileptick Fits; the Dose being from twelve Grains to a Dram.

The Way of Fishing for the Tortoile.

There are three Ways of Tortoife Fishing, viz. in Coupling, with the Spear, and when they come a-Shore. The Tortoifes begin to couple in March, and continue to May. I shall not take Notice of all the Circumstances that relate to this Action; it will suffice to say, that 'tis done fifts of thirteen Leaves or Plates, eight on the Water, so that they are easily discover'd; and they are no sooner perceived than or bending; of the flat there are four two or three People throw themselves prefently into a Canoe, make towards them, and come at them with Ease; they slip a toife ought to be thick, clear, transparent, of Nooze a-round their Neck, or one of their the Colour of Antimony, and marbled brown Feet; or having no Line, they lay hold on and white. There are of them that bear fix them with their Hand, by the Neck, where Pound of Leaves upon their Back; they 'tis uncover'd by the Shell; and sometimes make Combs and other fine Works of 'em, they take both of 'em together, but most that are very beautiful and valuable. The commonly the Female escapes, and the Males at that Time are very lean and hard Meat, but the Females very good.

The Spear for the Tortoife is much of the fame Sort as that of the Sea Cow, only instead of the barbed Iron, a Piece of square Iron of about halfe a Finger's Length, and very sharp, is fasten'd to the Top of the Spear, to which is tied a Line, The Spear being thrown at the Back of the Tortoife, the Iron Head is struck half Way into the Shell, which being of a hard bony Substance, it flicks as firm as if fix'd in a solid Oak. The Tortoife perceiving himself struck, makes the same Struggle to get loose as the Sea Com, and the Spearman uses the same Diligence to take him. Some fay that the Force abates proportionably to the Blood that is loft; but they Land, and in the Water; there are different are ignorant that the Tortaife does not lose

wounded, 'till the Iron is taken out.

The Time of taking the Tortoife upon Land is from the first Moon in April to that of August; for when the Tortoise perceives the Inconvenience of its Bulk by its own Weight and great Quantity of Eggs, which are sometimes above two Thousand, being forc'd by a natural Necessity, she quits the Sea, during Night, and comes to find out upon the Shore, a proper Place to lay her Burthen in, or at least some Part of it; and having found out one convenient for this Purpole, which is always a Heap, or Nest of Sand; the contents herself that Night, in only taking a View of the Place, and retires gently into the Sea again, leaving the Business to be done the Night following, or very speedily; all the Day the feeds upon the Plants growing on the Rocks in the Sea, without being far diftant from the Place where she is to lay her Burthen.

The Sun being upon the Declention, they may be seen drawing nearer to Land, and watching here and there, as if they mistrusted an Ambuscade; and as their Sight is very piercing, if they perceive any Body on the Shore, they will feek out for another Place wherein they have more Confidence; but if they see no Body they come a-Shore when 'tis dark: After having observ'd all Sides with great Diligence, they begin to work and dig in the Sand with their fore Feet, making a round Hole of a Foot broad, and a Foot and half deep; which being made, they lay therein two or three hundred Eggs, as big and round as a Tennis Ball: The Egg-Shells are foft as wetted Parchment; the White will not boil at all, tho' the Yellow hardens eafily. The Tortoife remains above an Hour in laying her Eggs; and during that Time a Coach might drive over her Body, and she not stir from the Place. Having discharg'd her Burthen without Interruption, she covers the Hole so dextrously, and throws the Sand about every where, that it is extremely difficult to find the Eggs: That being done, she leaves 'em and returns to the Sea. The Eggs are thus hatch'd in the Sand in about forty Days Time; at the End of which the little Tortoifes being as big as young Quails make straight to the Sea, without being

a Drop of Blood at the Place where it is by the Way, they fry whole, and so they are delicious Meat.

37. Of the Sea Dog.

HE Sea Dog is a pretty large Fish, that is found in several Pomet. Parts, but especially in Spain, and at Bayonne. Of all the Parts of this Fish, we fell none but the Skin, because of the great Service it is of, to the Workers in Wood, as Turners. &c. being very proper to polish withal. The true Dog-Skins, to be fine, ought to be large and broad, of a rough Grain, not too thick or too thin, but sup-

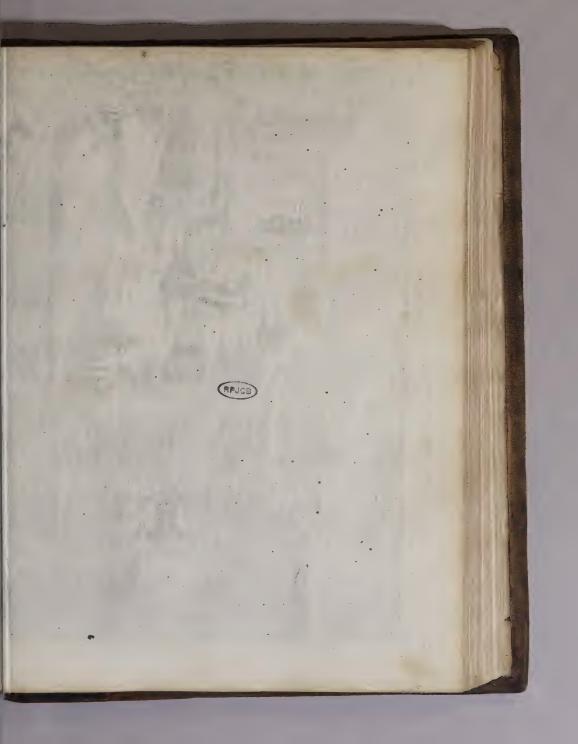
ply'd with Ears and Fins.

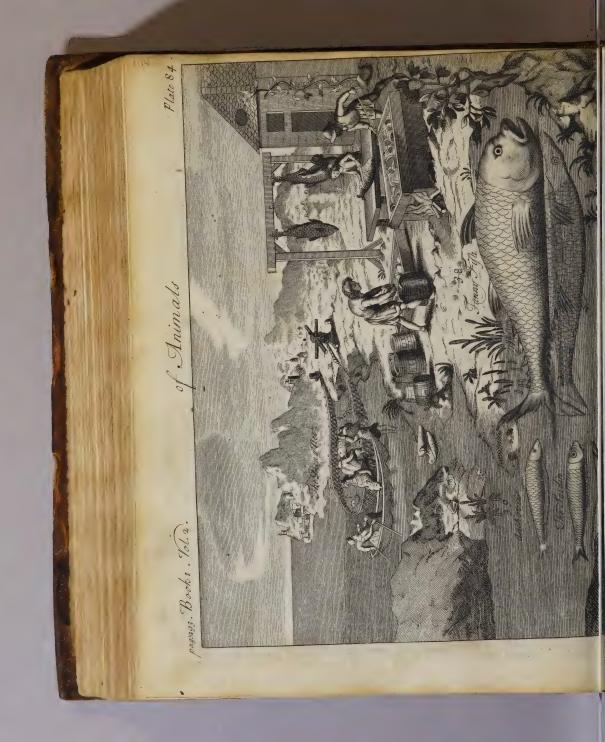
We bring besides, from the lower Normandy, the Skin of a Fish that is very like the Sea Dog, and which they call Doucette, or Rousette, the spotted Fish, which some Workmen use instead of the Dog-Skin, tho' there is a good deal of Difference, because the Dog-Skin is very rough, and the Rousette very little so; and besides, the Dog-Skin is always brown, and the Rousettes are of different Colours, and constantly spotted on the Back with small Stars; besides they are much less, which is the Reason why these Skins are very little us'd at Paris, and scarce any where else but in Auvergne. Those two Kinds of Skins are, over and above those mention'd, serviceable to other Tradesmen, as Sheathers, Cafe-Makers. We fell likewife another Fith-Skin, which has no other Use in France, England, and other Parts, than to make Knife-Handles of.

Mustelus, Galeus, or Lævis is a Kind of Sea Dog, which the Ita- Lemery. lians call Pefce Columbo, or a Fish that weighs above twenty Pounds; it is cover'd with a Skin that has no Scales, that is foft to the Touch, and of a whitish Colour, without Teeth, but the Jaws are rough, and it feeds upon Fish; the Fat is resolutive and emollient.

There is another Kind of Dog Fish which is call'd Galeus Afterius, sive Mustelus Stellaris, or the Star Dog Fish, that is like the former, only for the Spots upon it that are in the Form of Stars; the Virtues and Uses of it are the same with the other: This Fish is shown the Way. Those that are taken call'd Mustelus, as if you shou'd say, Mus stel-

latus.





every one of the Species are spangled with Stars.

28. Of the Tunny Fish.

THE Tunny, which the Latins call Thunnus, is a pretty large, heavy, big-bellied Fish, which is plentiful in the Mediterranean, especially in Provence, and at Nice, from whence comes what we fell: There are likewise a great many of them upon the Coast of Spain. The Time of Fishing for the Tunny is in September and October; and there are so many things peculiar therein, that it is by the Fishers shown to Strangers: These two Months are the Time when the Tunny runs from the grand Ocean into the Mediterranean, towards the Levant, as the Anchovies; I shall lay aside what relates in particular to this Fish, to inform you, that when the Month of September comes, they cast their Nets made of small Cane, which they call the Madrague, which is divided as it were into several Partitions, or different Parts, of which the first is larger than the others; so that the Tunnys entring the larger first, do not return 'till the Net is full, which it is in a small Time, where the Fishery is good, as well from the Plenty as the Largenels of the Fish: The Net being taken out of the Sea, the Fish die, not being able to live out of the Water; then they hang them up in the Air, open them, take out their Entrails, and take off the Head; and having cut them in Pieces, broil them on large Grid-Irons, and fry them in Oil Olive, and after having season'd them with Salt, Pepper and Cloves, and some Bay Leaves, they put 'em into little Barrels, thus dress'd, and ready to eat with fresh Oil Olive, and a little Vinegar, or to transport into feveral Parts, where this is call'd, by Reason of the Preparation, Sea Tunny.

We have two Sorts brought to Paris, which have no other Difference but that some have the Back Bone taken out, and for that Reason are call'd Bon'd Tunny, and are usually put up in little whiteWood Barrels, broad at the Bot- Antibes, St. Tropez, and other Places in Protom, and narrow at Top; and that which is vence: They are taken most commonly in

Tatus, because this Fish, in its Colour, some- Sorts new, firm, well done in good Oil, and what resembles that of a Mouse or Rat, and the Flesh white like Veal: Its Use is very common in Europe, and several other Parts of the World, as well because it is ready to eat, as because it is of an excellent Taste, like unto Veal. They commonly catch with the Tunny another Fish, which the Provincials call Imperador, or Emperor, and Dolphins are also there to be seen, which are always two and two together, fince they are accustom'd to fly into the Air at this rate; which getting out of the Nets suffer not themselves to be taken, where it is wonderful to fee how they leap both together in one Moment, and fall again into the Sea at once, as if they were tyed together.

Thunnus, vel Thynnus, or the Tunny, is a large, heavy, big-bel- Lemery. lied Fish, which is found plentifully in the Mediterranean Sea, in Provence, Italy and Spain; it is cover'd with large, smooth, straight Scales, eats Acorns, and other Sort of Maritime Food; the Flesh is firm, very good to eat, being of a Veal Taste, but is salted to prepare and keep it for Transportation when it is called Tunny; it is very nourishing, and of good Juice, and yields a great deal of volatile Salt; it is reckon'd proper to refift Poilon, against the Bite of a Viper, &c. being eat and apply'd outwardly. This Fish is call'd Thunnus, from the Greek Word buen, to be carried with Impetuofity, because this Fish moves so swiftly.

39. Of Anchovies.

Besides the Tunny we sell Anchovies that come from the same Parts Pomet. as the Tunny; and as we have considerable Trade with them, we chuse the least and newest, being white without, and red within, that are firm, and have round Backs, because they pretend that the large and flat ones are the Sardins: When the Barrels are made up, the Pickle ought to be well tafted, and Care taken that the Air do not affect them.

Anchovies are taken in several Parts, as in the River of Genoa, in Catalonia, at Nice, unbon'd is in little round Barrels: chuse both the Night, and always in May, June, and

Fuly.

Year, that they come from the grand Ocean takes something of the Nature of the Apua, into the Mediterranean, to go to the Levant. When they fish for the Anchovies, and wou'd take a Quantity, they light a Fire upon an Iron Grave at the Poop of the Ship, to the End that the little Fish following the Light may be the easier taken; but that which is very remarkable in this Fishing is, that the Anchovies that are taken by Means of the Fire, are not so good, or so firm, nor will they keep so well as those which are taken without it. The Fishery being done, they tear from the Head the Gills, or other superfluous Garbage; and this is the Difference betwixt them and the Sardins, where they are left in; and not as Mr. Furetiere says, because of the Gall, which he in his Books takes Notice of to be in their Heads. As to the Manner of ordering of them, they do nothing but range them in little Barrels of different Weight and Sizes, not weighing above five or fix and twenty Pounds, in which they put a due Quantity of Salt with the Anchovies. We sometimes, but very rarely, have dry'd Sardins prepar'd the same Way as red Herrings; but the little Consumption there is of them, gives no Encouragement to the Dealers to make any Demands for them. Being at Royan, a little Town of Xaintogne, where there are a great many Sardins, several Fisherbut in Shoals, and that under the Conduct of a King or Captain, like the Bees.

Apua, sive Aphya, or the Ancho-Lemery. vy, is a little Sea Fish as thick and long as one's Finger, having a thick Head; the Eyes are broad and black; within, and the Back round; they do not swim but in Companies, and cling fast one them a great deal of Salt and Oil; they are Sardin is a Kind of Apua, that is something

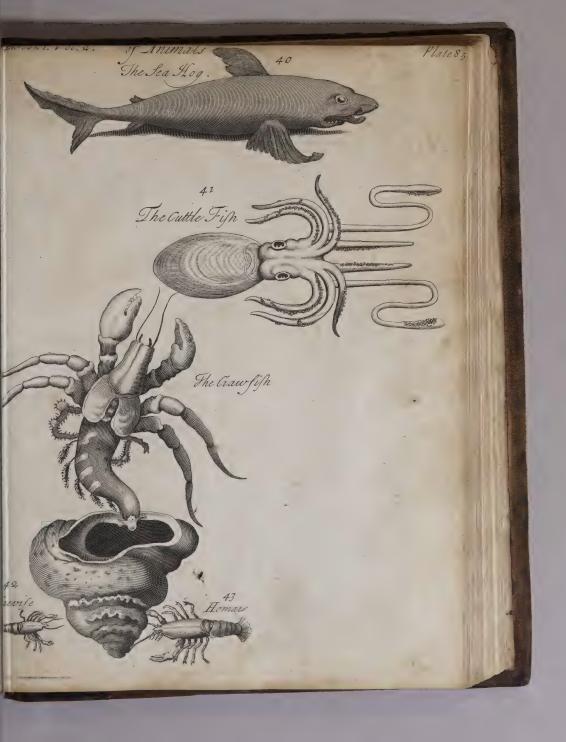
July, which are the three Months in the little Fish they eat in Languedoc, and parwhich is a Name given in general to these three little Fishes, and in particular to the Anchovy.

40. Of the Sea Hog.

HE Sea Hog is a large Fish very well known, the Use of which Pomet. is very considerable, because it is excellent Food, which is the Reason why some have rank'd this among the Royal Fish. Of all the Parts of this, we fell none but the Fat or Oil aromatiz'd, or plain, which is nothing but the Fat melted, and by the Addition of some Aromaticks, alter'd from its ftinking Smell, and made pleasant: They affign to the Fat and Oil of the Sea Hog the Property of curing cold Humours. Some Apothecaries, by the Retort, draw from this Fish several Preparations, to which they attribute different Virtues.

Delphinus, sive Porcus Marinus, or the Sea Hog, is a large nimble Lemery. Sea Fish, that is almost always

leaping out of the Water, and swims with a vast Swiftness; they commonly call it Simon, quasi Simum rostrum habens, as having a flat Nose or Snout; the Tongue is short, broad, men affur'd me, that these Fish never swam fleshy, and in Motion : The Teeth little and sharp, rang'd like the Teeth of a Comb: The Eyes are large, but fo cover'd with a Skin, that appears only like the Apple of the Eye, yet the Sight is very fine; the Voice is like that of a Person crying; the Back is hollow'd, and bent outwardly; it the Body of a Silver White, and reddiff swims by Means of two Wings, or strong able Fins, which are fet on at the Place of the Shoulders; it comes to its Growth in to the other. These Fisheries are made in ten Years, and will live to thirty. Pliny reseveral Parts; and when the Fish are taken lates several Stories, true or false, on this they gut 'em, and take out of the Head Subject; he will leap on Board a Ship, usuwhat is apt to putrifie, then falt 'em up in ally attended with a Companion; These two Barrels. The little Anchovies are valued Fish will make their Leaps so regularly, that more than the large ones; they contain in they feem to be joyn'd together; there are many of them taken in Fishing for the Tunaperitive, and proper to raise the Appetite, but my; they are very good to ear, and yield Athey serve more for Food than Physick. The bundance of Oil and volatile Salt. The Stomach dry'd and powder'd is proper for larger and flatter than the Anchovy, but not Difeases of the Spleen, and the Liver for inso well tasted: The Melette, or Sprat, is a termitting Fevers. The Sea Hogs are made almost





almost like the Dolphins, but they are not so little: The Fat of both are us'd to the same Purposes.

41. Of the Bone of the Cuttle Fish.

THat which we now fell, and call the Bone of the Cuttle-Fish, and the Latins Os Sepia, is the Back Bone of a Fish very common in the Ocean, and also in the Mediterranean; they are very ugly Fish, and of a very surprising Nature; they eat them in several Towns in France; as Lyons, Bourdeaux, Rochel, Nanes, &c. The Bone of this Fish is of different Sizes, tho' the largest never exceeds above half a Foot; the Bones are white and hard on one Side, and fost on the other, for which Reason the Goldsmiths use it for Casting; some use the Cuttle Bone to clean the Teeth with, but the main Use is for the Goldsmiths, and for those who cast Venetian Lac.

This Bone confifts of a hard brown Shell on the outfide, with a thick, white fpungy, dry Pulp or Substance underneath it, which being rub'd between your Fingers, will become a pure white, fine, subtil Powder, that being drunk in Water, helps the Asthma, and is good against Diseases of the Breast and Kidneys, expelling the Stone and Gravel, and curing a Gonorhea, taken for a confiderable Time together: Outwardly apply'd, it helps Spots, Clouds, Films, Pearls, and other Impediments of Sight, and likewise dries up Rheums, and other watery Humours.

Sepia, the Cuttle Fish, is a de-Lemery. form'd Sea Fish, resembling much a Polypus: The Covering of the Back is a Sort of Shell, Scale, or Bone, as thick as one's Hand, an Inch thick in the Middle, but thinner on the Sides, light, hard without, and spungy within, very white, and fomething of a faltish Taste; they call it Os Sepie, or Cuttle Bone ; the Goldsmiths use it for Moulds to cast Forks and Spoons in. This Fish carries under its Throat a Bladder, or Receptacle, full of an Humour that is for Swimming, and to take what it can catch: the Shell becoming too frait for there,

Besides these, it has six Feet which have Teeth on the upper Part of 'em, and two much larger underneath; it lives on small Fish, is good Meat, and brought to the Table in several Parts of France: As to its medicinal Use. it is deterfive, aperitive, deficcative, proper to take away Freckles and Spots on the Face and Skin, to clean Teeth, provoke Urine, and bring away Stone and Gravel: Dose from half a Scruple to half a Dram. The Eggs or Spawn of the Cuttle-Fish provoke Urine and the Terms.

42. Of the Crevise, or Craw-Fish.

THE Crevise, says Father Du Tertre, is a Kind of small Crab, Pomet. of three or four Inches long, or more; one half of the Body of which, is like a Sea Locust, or Grashopper, but cloath'd with a Shell that is a little harder: Four Feet are like those of a Crab, two are Biters; one of which is not much bigger than of one of the four Feet, and the other much broader than one's Thumb, that shrinks up strangely, and shuts the Mouth of the Shell wherein it lodges. All the rest of the Body is a Sort of Pudding in a pretty rough thick Skin, as thick as one's Finger, and half the Length, or more; at the End is a little Tail, made up of three small Nails or Shells, like the Tail of a Sea Grashopper; all that Part is full of a Substance, like that in the Shell of a Crab, but red; and being expos'd to the Fire, or set in the Sun, melts and runs into Oil, which is a true Ballam for fresh Wounds, which I have made Tryals of on feveral Perfons with good Success.

They descend once every Year to the Sea Coast; but whether it is to wash, and to cast their Eggs, as the Crabs do, I know not; but this I know, that they go to change their Shells, which every one endeavours to find out according to his Size; and finding what may fit 'em, they run themselves backwards therein, and so cloath themselves a new; and being arm'd like Soldiers with these foreign blacker than Ink, which it discharges into Shells, they march to the Mountains, and take the Sea, when pursued to intercept the Sight up their Quarters among the Rocks and holof the Fishermen; it has two Kinds of Arms, low Trees, living upon rotten Leaves and or Trunks, fix'd to the Head, which serve it Fruit, where increasing in Bulk, and to go down to the Sea Coast to change their is much bigger than that I have been speak-Houses. The Curious, who have made Ob- ing of, and that is three or four Inches long, servations of what happens during the Ex- and call'd the Soldier, because he is cloath'd change, have ingenuously own'd to me, they and arm'd with a foreign Shell. Those took a great deal of Satisfaction in the Sight; for they stop at every Shell they meet with, confider it diligently, and having met with one they believe for their Turn, they immediatly quit the old one, and run themfelves so swiftly backwards into the other, that one wou'd think they were either afraid of the Injury of the cold Air, or asham'd to be seen naked.

Aristotle, who said that these Animals nethey couple, might have added, that they will fight for their Lodging; for if two of them Oil ver meet at the same Time stript, to enter into France. one and the same Shell, they will bite each other, and battle it, 'till such Time as the Weaker yields, and quits the Shell to the Conqueror, who having cloath'd himself with it, takes three or four Turns upon the Shore; and if he find it does not fit him, he quits it again, and has immediate Recourse to his old one, and then seeks out for another; and thus they will change five or fix times, 'till they meet with one for their Purpose. They carry in their Shells about half a Spoonful of clear Water, which is a fovereign Remedy against the Pustles and Blifters, that the Drop of a certain Tree in the Mountains raises upon the Skin.

Cancellus is a Sort of very small Lemery. Crawfish, call'd the Hermit, or Bernard the Hermit, because it retires from the others, and enters into the first Shell it meets with; the Figure of his Body is longish, but in Size of the Bulk of a Spider, only that it is a little larger; it carries upon its Head two little, slender, reddish Horns; the Eyes are rais'd, the Mouth is fer with fine Hairs, that may be call'd a Beard: The two upper Legs are bent up again, and serve instead of Hands to reach found near the Rocks, and are good Meat, being aperitive.

by Reason of their Growth, they are oblig'd with a Kind of Cancellus, or Crawfish, that who wou'd know further may be fatisfied from the Reverend Father Du Tertre, who has writ concerning this Animal, [as Pomet, bas already taken Notice of.] The Inhabitants of the Isles where this Fish is taken make an Oil of 'em, by hanging them in the Sun, so that the Substance that melts from them makes an Oil of a Confiftence as thick as Butter, and of a very fetid Smell; the Virtues of which are wonderful in rheuver fight but for their Victuals, or when matick Pains, to which the Inhabitants of the Country are very subject. They sell this Oil very dear, because it is very scarce in.

43. Of the Sea and River Crab.

Here are two Sorts of Sea Crabs, fays Father Du Tertre, which Pomee. are commonly call'd Homars, which differ not but as to the Size of their Claws, some of which are as long and as broad as one's Hand, and much stronger than those of the Crabs, and grow to a vast Size, so that some are three Foot long; their Flesh is white, and more relishing than the Crabs, but it is harder, and more undigested; it is eat with Lemon, or Vinegar and Pepper: They find them in the Night with Lights on the Sands, or stony Places, from whence the Tide is retired.

There are no Parts of the great Sea Crab used in Medicine, but the black Tips of the Claws, call'd Cheli Cancrorum, which are prepar'd either by Levigation, or Calcination: The First is by beating them to a fine Powder, and grinding on a Marble with Rofe-Water, or the like: The next Way is putting them in a Crucible, and burning them 'till they are white, and then reducing them to the Mouth, where it has Teeth; they are into a fine Powder as before. These Preparations are Alcalies in their own Nature, and several eating them after they are wash'd and such as Physicians call a fix'd Alcali; they boil'd; they afford a great deal of volatile cure Heart-Burnings, take away Sournels Salt, and are proper for Stone and Gravel, from the Stomach, absorb Acidities, and ease Pains in the Bowels, proceeding from In several of the American Isles they meet sharp Humours: They are sometimes given with good Success in the Whites in Women, and the Gonorrhea in both Sexes; they are commended to cool, dry, cleanse, and discuss, and are good against Colicks, salt Humours, &c.

As to the fresh Water, or River Crabs, we fell nothing but a little white Stone, made in Form of Eyes, from whence they take their Name, tho' very improperly, fince they are nothing but little Stones which are found in the Head of the large River Crab. These Stones which are call'd Crabs Eyes, or Oculi Cancrorum, are never found but in May and June, which are the Times that the Crawfish leave their Shells. The Crawfish, or Crevise Stones, which we now sell at Paris, come from Holland: And, if we can believe a Phyfician of the Poland Envoy, who was a very honest, able Man, and remain'd a long Time in Holland; he affur'd me, that what we fell now under the Denomination of Crabs Eyes, was nothing but a white Earth wash'd, and made into little Pastiles or Troches, and moulded with a little Inftrument made for the Purpose, with Holes of proper Sizes to form it: To prove this, he affured me he saw two Persons at Amsterdam, who did nothing else but counterfeit these little Stones; fo that now it is no longer doubted, but the greatest Part of the Crabs Eyes made use of in the Shops, is nothing else but an artificial Paste reduc'd to Powder; for Crabs Eyes are nothing but a little, thin, hollow Shell: of which there are some of a large Bigness, as the Chester Lobsters, every one having two Stones in the fore Part of the Head, beyond their Eyes. In Silefia they have great Quantities of them, as also in Poland; and they are brought from Dantzick, Hamburgh, Denmark, Norway, and Swedland, and are found upon the Shoar, almost every where of the Baitick Ocean.

There are several Preparations of them, but the levigated Powder is only us'd, and that chiefly to absorb Acids, open Obstructions, and cleanse the urinary Passages of Gravel, to provoke Urine, and bring away the Stone, and other tartarous Coagulations: They are sometimes calcined in a Crucible; and if they are rightly prepar'd, they ought to be yellow; for if they are of a black Colour, they are too much burnt,

and good for nothing.

44. Of the Boutargo and Caviere.

Boutargo, or Potargo, is the Spawn of a Fish, which the People of Pomer. Provence call the Muller, very frequent in the Mediterranean: The best is that which comes from Tunis in Barbary; it is likewise made at Martegue, eight Leagues from Marseilles, the reddest is most valued, they eat it on Fast Days with Oil Olive and Lemon.

The Caviere, or Cavial, which we have, comes from Italy, and is made in feveral Parts of the Levant from the Spawn of a Fish, which some have affur'd me was that of a Sturgeon, which I shall not affert to be so, not knowing it positively; I shall only say this, that they eat a great deal of it in Italy, and little in France, not being so well known, no more than the Boutargo, especially at Paris.

Mugil, Cephalus, or the Mullet, whereof Boutargo is made, is a Sea Lemery. and River Fish, which has a great Head, from whence it is call'd Cephalus, which fignifies a Head; the Muzzle is thick and short, the Body oblong, cover'd with Scales. They find a Stone in its Head, which is call'd Echinus, or Sphondylus, be-cause it is set with Prickles. This Fish is common in the Mediterranean, it swims with an extraordinary Swiftness, and gives some Disturbance to the Fithermen; it is good Mear, and yields Abundance of Oil and Flegm, with some little volatile and fix'd Salt. The Ventricle being dry'd and reduc'd to Powder, is proper to stop Vomiting, and strengthen the Stomach: This Stone found in the Head is very aperitive, and proper to diffolve the Stone in the Kidneys and Bladder: The Dose is from half a Scruple to two Scruples: The Spawn of the Fish ferves to make Boutargo of, which is usually eat on Fast Days.

45. Of the Shark or Sea Dog.

THis Fish is call'd by the Spaniards, Pomee.

Phiburon, by the Dutch, Haye, and by the French, Requiem, Lecause it devous II.

are fung over 'em; it is one of the most glut- their Teeth cut. tonous Animals in the World; nothing comes amis to him, tho' it be a Log of Wood he'll swallow it, provided it be but greafy, for he swallows without chewing; he is furious and bold, and will throw himself upon the Shore, and remain on the Land, that he may have the Opportunity of catching the Passengers; sometimes he will bite at the very Oars with his sharp Teeth, for Rage and Madness that he cannot get at the Men which are in the Boat. There is found in his Head two or three Spoonfuls of Brain that is as white as Snow, which being dry'd, reduc'd to Powder, and taken in white Wine, is excellent for the Gravel. The Reverend Father Du Tertre has made a long Discourse of this Animal, to which the Reader may have Recourse; some have given the Name of Tiberon to this Animal, and others that of the Fish with two hundred Teeth; and he is all there is a Pearl Fishing about the Isle of off the Thigh of a Man.

Besides these Animals, and the Parts whereof I have treated, we fell, tho' very rarely, the Bone of the Head of the Tiberon; those of the Crocodile, Carp, Perch, &c. with the Jaws of the Pike; and in short, the Druggifts are permitted to fell all Sorts of falt

Fish, either Wholesale or Retail.

Carcharias, Canis Marinus, or Lemery. the Sea Dog, is an American Fish that grows to a large Size, fo as to be two Tun Weight; it is long and thick, Lover'd with a rough Skin; the Head is very great, and like a Dog's; the Mouth long and broad, furnish'd with Abundance of triangular Teeth that are hard and sharp; the Eyes are large and round, the Body cartilaginous, the Tail about a Foot and an half long, forked; the Fins are great, it swims in the deep Sea, but sometimes enters into the Mouths of the Rivers to pursue its Prey; it lives of Fish and Flesh, but is very eager afof Brain that is very white; the Teeth are of Persia, five Abassis, whether he has Suc-

yours Men, and so is the Occasion that Dirges us'd to rub Childrens Gums with, to make

46. Of Pearl.

THE Pearls are little round Bodies, that are found both in the Pomet. Eastern and Western Seas: There are several Sorts of 'em which are more or less valued, according as they are large, round, and of a fine Water, and according to the Place from whence they are taken, as the following Account will show from Mr. Tavernier, who in his Travels has made a curious Enquiry after them. These Pearls are found, says he, both in the East and Western Oceans; and though I have never been in America, yet as well for the Reader's Satisfaction, as that nothing may be omitted, I shall relate all the Parts where the Pearl Fishings are, beginning with these of the East. First of fo furious, that with one Bite he will inap Babren in the Gulph of Persia; this belongs to the King of Persia, and therein is a good Fortress that entertains a Garrison of three hundred Men. The Water which they drink in this Island, and that of the Coast of Persia, is like salt Water, and of an ill Taste, and what none but those of the Country are able to drink: As for Strangers, if they will have fresh Water they must pay for it; being only to be had a League or two off, by putting to Sea five or fix Persons in a little Vessel, and drawing Water with a Bottle from the Bottom of the Sea, where for about two or three Foot at the Bottom the Water is sweet, and pleasant to drink. When they that dive to the Bottom of the Sea to draw up this Water have fill'd the Vessel, they give a Pull to a small Cord which is tied to one of those in the Boat, which is the Signal to his Comrades to pull him up.

During the Time the Portuguese were possels'd of Ormus and Mascate, every Vessel. that went out to Fish, was oblig'd to take ter that of Man's Fleih. Johnston relates, from 'em a Passport that cost five Abassis, and that he found in one of these Sea Dogs a they kept always several Brigantines to fink whole armed Man; they are of feveral fuch as refused to take any. But fince that Sizes; their Flesh is eat, but it is not good; the Arabs have retaken Mascate, and that the Skin is of great Uie to several Artists; the Portuguese have no Forces upon the Gulf, the Head contains in it two or three Ounces every Man that fishes pays only to the King the Merchant also gives some small Matter to and all the Company. The Kan wou'd have the King out of every thousand Oysters.

to Babren on the Coast of Arabia Falix, near the City of Catifa, which belongs to a Prince of the Arabs, with all the Country thereabouts: All the Pearls taken in those Parts, are mostly fold to the Indies; because the Indians are not so difficult to be pleas'd as we, but are easier impos'd upon; they go into Persia and Muscovy are sold at Banthat is more upon the yellow Water, as well as the white, because they say the Pearl, with that Water, retains its Liveliness, and will not fade; but that the White will not last above thirty Years without looking its lively Colour; and not only the Heat of the Country, but the Sweat of the Person that wears them will discolour them with a base Yellow.

Before I leave the Gulf of Ormus, I must beg Leave to give an Account of that admirable Pearl, which the Prince of the Arabs had, which took Mascate from the Portuguese; he took then the Name of Imenest, Prince of Mascate, but was call'd before that, Acepb Ben Ali, Prince of Norenvae; it is no other than a petty Province, but the best of all the Arabia Falix: There grows every Thing that is necessary for human Life, but particularly the finest Fruits, and especially Grapes, whereof they may make excellent Wine. This Prince had the finest Pearl that was in the World; not for its Size, for it weighed not above twelve Carats, or its perfect Roundness; but because it was so clear and transparent, that you might almost see clearly through it. As the Gulf over-against Ormus, was not above twelve Leagues over from the Happy Arabia to the Coast of Perfia, and the Arabs were at Peace with the Persians, the Prince of Mascate came to pay a Visit to the Kan of Ormus, who treated him very magnificently, and invited to his Entertainment, the English and Dutch, and

cess in his Fishery, or catches nothing at all; about his Neck, and show'd it to the Kan bought it for a Present to the King of Per-The second Fishery of Pearls is opposite sia, and offer'd him two thousand Tomens, but it wou'd not do : Since that, I pass'd the Sea with a Banian Merchant which the great Mogul had fent to that Prince to offer him forty thousand Crowns for that Pearl, which he wou'd not take. This Story lets us fee as to what relates to Tewels, those which are fine are not always brought into likewise carry some to Balfara: Those that Europe, but rather carried out of Europe into Asia, because in all those Parts, they set a great der-Congo, two Days Journey from Ormus. Price upon precious Stones and Pearls that In all the Places I have nam'd, and other are of an extraordinary Beauty, except in Places of Asia, they admire the Pearl China and Japan, where they do not mind them at all.

The next Place, in the Eastern Parts where there is a Fishery of Pearls is, in the Sea that beats upon a large Town, call'd Manar, in the Isle of Ceylon; these are the finest for their Water and their Roundness of all the other Fisheries, but there are rarely any found that exceed three or four Carats Weight. There are, moreover, upon the Coast of Japan, Pearls of a very fine Water, and very large, but uneven or rough; but they never fish for them, because, as I have been saying, the Japoneze do not value Jewels. Although the Pearls which are found at Bahren and Catifa are a little upon the Yellow, they will yield as good a Price as those of Manar, as I have observ'd; and throughout all the East, they allow they are come to their full Maturity, and will never change Colour.

I come now to the Western Fisheries, which are all in the great Gulf of Mexico. along the Coast of New Spain, and they are five in Number, lying in Order, from the East to the West, as follows: The First is along the Isle of Cuba, which is not above three Leagues about, and five, or thereabouts, distant from the Terra firma: It is in fix Degrees and an half of Northern Latitude, and one hundred and fixty Leagues from St. Domingo, in the Isle, call'd Hifpaniola; this is a very barren Soil, and wants every thing, especially Water, which the Inhabitants are obliged to fetch from the feveral other Europeans, of which Number I Terra firma. This Island is famous in the was one. When Dinner was over the Prince West-Indies, because it is the Place where took this Pearl from a little Purse that hung there is the greatest Fishery of Pearls, tho'

the largest of them, exceed not five Carats which are, as it were, of a leaden Colour.

The second Fishery is in the Isle of Margarit, that is to fay, the Isle of Pearls, a League from Cuba, which it very far furpasses in Bigness; it produces every Thing necessary for Life, only that it wants Water as well as Cuba, and they are forc'd to bring it from the River Cumana near New Cadiz. This Fishery does not yield the most Plenty of all the five that are in America, but is esteem'd the Chief, because the Pearls which are found here excell the other in Goodness, as well for their Water as their Bigness; one of these last, which I have had in my Posfession, being shap'd like a Pear, and of a fine Water, weigh'd fifty-five Carats, and I fold it to Cha Est Kan, Uncle to the Great Mogul. Several Persons are surpriz'd, and wonder why we shou'd carry Pearls out of Europe into the East-Indies, where they have so many: But they shou'd take Notice, that in their Fisheries of the East, they do not meet with such large ones, as in the West; adding to this, that all the Kings and great Lords of Asia, will give a greater Price than those in Europe, not only for Pearls, but all Sorts of Jewels, that have any thing excellent in them, except Diamonds.

The third Fishery is at Comogota, pretty near the Terra firma. The Fourth is at Rio de la Hacha, along the same Coast. The Fifth and Last is at St. Martha's, about fixty Leagues from Rio de la Hacha. All these three Fisheries produce pretty large Pearl, but for the most Part they are ill shap'd, or irregular, and of a black or leaden Water. As for the Scotch Pearl, and those found in one of the Rivers of Bavaria, tho' there have been Neck-laces of 'em valued at a thousand Crowns and upwards, yet they are not to be equallized with the Oriental or Occidental Pearl. Of latter Years there has been a Fishery discover'd in a certain Part of the Coast of Japan, and I have seen some of the Pearl which the Dutch have brought from thence, that have been of a fine Water, and

large, but irregular.

Before I finish this Chapter, I will give you a Remark worth Consideration, in Relation to Pearls, and the Difference of their Waters; some being very white, some inclining to yellow, and others upon the black,

As to these last, they are met with no where but in America, and that comes from the Nature of the Soil, which is fuller of Mud than the Eastern Parts. In the Return of the Cargo which the Sieur du Fardin, the famous Jeweller, had in the Spanish Galleons, there were fix Pearls perfectly round, but as black as Jet, and which, one with another, weigh'd twelve Carats each: He gave me these, among other Things, to carry to the East-Indies, and see if I cou'd dispose of them; but I brought them back again, and cou'd meet with no Body that wou'd look upon them. As to the Pearls which are inclin'd to yellow, that comes from hence, that the Fishermen selling the Oysters in Heaps, and the Merchant staying sometimes fourteen or fifteen Days before they open them to take out the Pearl, some of these Oysters, during this Time, do lose their Liquor, which wasts and stinks, and the Pearl becomes yellow from the Infection; which is fo true, that all the Oysters that keep their Liquor, or Water in them, are always white; but they wait 'till the Oysters open of themselves; because if they shou'd open them by force, as we do ours here, they wou'd go near to endanger and split the Pearl. The Oysters of the Streights of Manar, open naturally five or fix Days sooner than those of the Gulf of Persia, because the Heat is much greater there, which is in the tenth Degree of Northern Latitude, than in the Isle of Babren, which is in the Twentyfeventh; and therefore among the Pearls that come from Manar, there are but few yellow ones. In short, all the Eastern Countries are much of our Minds, in Relation to Whiteness; for I have always made it my Observation, that they love the whitest Pearl, the whitest Diamonds, the whitest Bread, and the fairest Women.

Margarita, Uniones vel Perla, Pearls are little Stones almost round, Lemery oval or shap'd like Pears, compact, hard, smooth, white, shining, and of different Sizes, which are form'd in certain Oysters, whose Shells are of different Bigness: But there are some of 'em met withal that are three or four times as big as the Rouen Oysters. They fish for these Pearl Oysters in the Eastern and Western Ocean, as you

may fee at Length in Mr. Tavernier's Travels. Nature has appointed for them; but we can-[from whence Pomet has given you a Relation.] The Ancients call'd these Pearls Oniones, because they believ'd there never was but one in an Oyster; but they were deceiv'd, for we sometimes find seven in a Shell; they are bred from a viscous, or saline, glutinous Humour, that is condens'd and petrefied in feveral Parts of the Fish. Instead of a particular Part affign'd for the Generation of Pearl, they breed indifferently in all the Parts of the Oyster, but are most commonly found in the largest and best shap'd Oysters rather than in others, tho' these Oysters are as good to eat as the common Sort: Sometimes we meet with Pearl in Muscles, and other Shell Fish, as well as the Oysters. Pearl is esteem'd cordial, proper against Infection, to recruit and restore lost Spirits; but their chief Virtue is to destroy and kill the Acids as other Alcalies do, and likewise to correct the Acrimony of the Stomach. Pearl is likewise good against a canine Appetite, a Flux of the Belly, the Hemorrhage, &c. The Dose from fix or ten Grains to a Dram.

47. The Manner of the Pearl breeding in the Oyster.

know, that on the Authority of feveral ancient Authors that were not well inform'd in the Nature of these Things, it is commonly believ'd that Pearl is bred from the Dew of Heaven, and that there is never above one in a Shell, but Experience has let us see the contrary: For as to the First, the Oyster never stirs from the Bottom of the Sea, where the Dew can never come; and as to the other, it is certain that there are found from fix to seven Pearls in a fingle Oyster; for I have one in my Hands, where there are to ten Pearls, that were in the Course of Formation: It is true, they were not all of the same Size, for they breed in the Oyster just as Eggs in the Belly of the Hen; for as the largest Egg advances first to be excluded, the least stay betom, 'till they are grown to the Size that the Cord that is tied under his Arms, which is

not say there is a Pearl in every Oyster, for there are several open'd, in which there are

none at all.

The Pearl-Fishing in the East-Indies is twice a Year; the First is in March and April, and the Second in August and September; and the Sale of 'em is from June to November: The People are so poor, and live so miserably along the Coast on the Persian Gulf, that they must starve but for this Fishery; for they have neither Bread nor Rice. and eat nothing but Dates and falt Fish; and they must go twenty Leagues into the Country before they can meet with a Plant. The more Rain there falls in a Year the better the Pearl-Fishing is. Many have imagined, that the deeper in Water the Oyster is found, the Pearl therein is the whiter, because the Water is not so hot, and the Sun finds greater Resistance to get to the Bottom, but that is only a groundless Fancy; they fish from four to twelve Fathom deep; and this Fishery is upon the Banks where there is sometimes two hundred Barks, or little Vessels, at a Time, in most of which there is not above one Diever, or two at most.

These Boats go off every Day from the Coast before the Sun rise, with a Land Breeze, which lasts 'till ten a-Clock in the Morning, and in the Afternoon they return with the Sea Breeze, that constantly about eleven or twelve at Noon succeeds the other: The Banks upon which they fish are five or fix Leagues out at Sea; and when they come there, they fish thus for the Oysters: They tye a Cord under the Arms of those that dive, of which those that remain in the Boat take hold of the End. They tye to the great Toe a Stone of eighteen or twenty Pounds, of which also those that are in the Boat take hold of the End. They have besides a Ner made like a Sack, whose Mouth is made round like a Circle, that it may keep open, and this Net is tied like the rest; then the Diver goes down into the Sea, and as foon as he is at the Bottom, where he is quickly by the Weight of the Stone, he nimbly unties hind 'till they have acquir'd their Bigness; the Stone, which those in the Boat draw up so the largest Pearl advances first, and the again. As long as the Diver can hold his other leffer, not having attain'd to their Per- Breath he puts the Oysters into the Net, and fection, remain under the Oyster at the Bor- when he finds he can hold no longer, pulls

that are in the Boat draw him up as quick as possible. Those of Manar are more expert Pearl, the Flowers, Spirits, Essences, Tinat Fishing, and stay longer in the Water than the Fishermen of Babren and Catifa, for they put nothing in their Noses or Ears to keep out the Water, as they do in the Gulf of Persia.

After they have drawn up the Diver into the Boat, they take about half a Quarter of an Hour's Time to empty the Net of the Ovsters: in the mean While the Diver recovers his Breath, and returns to the Bottom of the Sea, as before, which he does several times for ten or twelve Hours together, and then returns to Land. To conclude this Discourse of Pearl, we ought to observe, that throughout Europe they sell by the Carat, which is four Grains, as well as that of the Diamond Weight, but in Asia they use several Weights. In Persia they weigh Pearls by the Abas, and an Abas is an Eight less than our Carat. In the Indies, especially in the Great Mogul's Countries, and in the Kingdoms of Golconda and Vifapour, they weigh by the Ratis, and that is also an Eight less than the Carat.

Goa was formerly the Place where the great Trade of Afia lay for Diamonds, Rubies, Saphirs, Topazes, and other precious Stones. All the Mineralists and Merchants came here to fell whatever was fine from the Mines, &c. Here also was the great Commerce of Pearls from all Parts of Asia, as also of those from America: As for Africa, this Sort of Traffick is unknown to them, because the Women there are contented with Pieces of Chrystal, or some Grains of false Coral, Glass Beads, or yellow Amber, to make Necklaces and Bracelets of. As to the Pearl we usually sell, call'd Seed Pearl, which is for medicinal Uses, being proper to reduce into Powder by the Mortar or Muller, it ought to be white, clear, transparent and true Oriental, rejecting all other Kinds, especially the Scotch or Bruffels Pearl, it being nothing but an artificial or counterfeit Sort. The Use of Pearl is to put in Potions, or other Cordial Compositions. The Ladies of Quality use the fine ground Powder rea, is the little white Shells that

the Signal that he wou'd come up, and those they attribute large Virtues; besides other imaginary Preparations, as the Arcanum of ctures, and the like, to pick Fools Pockets; but the best and only useful Preparation of it, is the Powder well levigated.

48. Of Mother of Pearl.

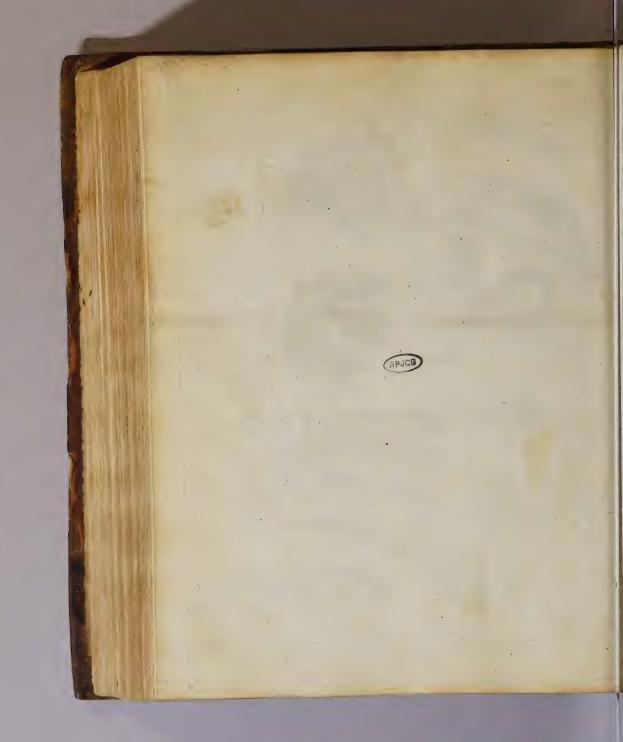
W E bring to Paris great greenish Shells that are rough and uneven on the Outfide, and of a white, inclining a little to be greenish within, which they call, tho' improperly, by the Name of Mother of Pearl; not because the Pearl is bred in them, as a great many People believe, but because they are on the Inside of the Colour and Water of Oriental Pearl, as well as without, especially when they are prepar'd with Aqua fortis: These Shells ferve for several Sorts of fine Works, a great many People preserve and grind them into Powder, after which they form them into Troches, and fell 'em for prepar'd Pearl.

The Mater Perlarum, or Nacre de Perles, in English, Mother of Lemery. Pearl, is a Kind of Oyster, of which there are several Sorts that is within of the Colour and Beauty of the Oriental Pearl. I have preserv'd by me one of these Shells that weighs seventeen Ounces, and is as broad as both my Hands: Chuse the whitest, and of the best Lustre; they make of these Shells Snuff Boxes, and a great many other fine polish'd Works, that are neat, smooth, and very agreeable to the Eye; and likewise grind it to Powder on a Porphyry, and it is us'd by the Women amongst their Pomatums for a Fucus to beautify the Face.

49. Of the Shell of the Sea Snail, call'd Concha Venerea.

Hat we call the Sea Snail Shell. and the Latins, Concha Vene- Pomet. of it, to give a Lustre and Beauty to the is brought from several Parts of the East Face. They make of it likewise, with A- and West-Indies, hung in Strings in the Nacids, &c. a Magistery and Salt, to which ture of Beads, and big Bunches; so that in

pas:302. Book. 1 Volice. The bour Antaluem. False Mother of Peace The Solen or Finger shell. Pluie 86.



a Parcel where there are feveral of these Bunches, there are more than a Thousand of these little Shells. The Siamois, Arovargues, and the People of New Spain use these little Shells as we do Money here: They are us'd in Powder with us as Pearl, of which we chuse the least and the whitest: There are several Sorts of them describ'd by Johnston, but we have only given the Figure of one which we thought sufficient.

Concha Venerea, Pourcelaine, or Lemery. Pucelage, is a little Sea Snail Shell, fomething larger than a Pine Kernel, longish, white and smooth, which is brought us from the Indies, strung several together like Beads; they serve the Natives there for Money: They make a better White than Pearl, and are us'd in Paint for the Face: Besides which they are alcaline, and a good Sweetner of the Blood, but are not much us'd in Physick.

50. Of the Doglike tooth-shell.

Pomet. THE true Doglike-tooth-Shell, or Dentalium, not Dentalis as commonly call'd, is a Pipe of about three Inches long, thick at one End, and small at the other, made like a Dog's Tooth; this Pipe is of a greenish shining White, adorn'd with straight Lines that go from one End to the other; it is hollow, light, of the Size of a Quill at the thick End, and smaller by Degrees, to the other End.

The true Tooth-shell is so rare, that it was never writ of by the Ancients; but Mr. Tournefort gave me one which I have caus'd to be delineated amongst the Pearl, which I am oblig'd to pass by in Silence, and speak to that which Schroder and several others have mention'd, that it is a small hollow Pipe of feveral Colours, which is very commonly found on the Sea Side, and fold in the Shops for the True Dentalium, and which the Apothecaries improperly use as such in several Galenical Compositions. Several likewise take the Bone in the Head of a Sea Fish for the true Tooth-shell, which some suppose to be a little Bone taken out of the Head of a Haddock or large Whiting. As to the Virtues of this, it is an Alcaly to be us'd as other restaceous Powders.

51. Of the Antalium, or Entaglia.

THE true Antalium is as little known as the former, fince the Pomet. Apothecaries constantly, for the True Antalium, make use of a hollow Pipe, of different Colours and Sizes, not exceeding, still, that of a large Quill: These Pipes are found at the Bottom of the Sea, and upon Rocks, sometimes separated, and sometimes feveral of them together; they ferve for feveral little Sea Worms to creep into: And feveral Authors, especially Rondelet, an eminent Physician of Montpellier, calls these Pipes, Tubuli Marini. I shall not stop here to relate the long Discourse of Renou, in his Book, but affirm, according to Mr. Tournefort; who is a Man of the greatest Perspicuity, as well in Plants as Shells, that Europe has bred thefe many Years; that the true Antalium is another Sort of Pipe, which grows likewife at the Bottom of the Sea: This Pipe is about an Inch and a half long, and the Bigness of a large Quill at the thick End, and that of a little Quill at the other; it is hollow and thick at one End, and slender at the other: As to the Colour it is always white, but differently fo, being found of a greenish White, and a more unpolish'd White, &c. As to the Choice of these two Pipes, there is no other Difference than to take the True; for the Virtue of the Antalium is nothing different from that of the Dentalium, they being both Alcalies and Dryers.

52. Of the Umbilicus Marinus.

Marinus, i. e. Sea Navel, is Pomet. the Covering of a Cockle or Sea Snail, that is very common in the Mediterranean, which Rondelet calls Cochlea Celata; this Lid is tied to one End of the Fift, which lodges in a Shell, and when the Animal retires into his House, he draws after him the Lid on Covering, which shuts the Mouth of the Shell so exactly, that the Sea Water cannot enter. Rondelet informs us, with Reason, that the true Umbilicus Marinus is a Shell very different from this Covering, which he describes

Book ; but Custom has decided this Contro- is very stinking. Dioscorides calls this Coverly in Favour of this Covering, which vering Unguis five Onix: This, fays he, is must be used when the Umbilious Marinus is prescrib'd: It is of different Sizes. That which is most frequently seen is not much broader than a Farthing, and of about the Thickness of a Crown Piece. It has its Denomination from the Similitude it bears to that Part, of which it bears the Name. Some instead of this use the Shell of a Sea Fish call'd Nerita, of which Mr. Tournefort gives

the following Account.

The History of the Nerita is very confus'd in both ancient and modern Authors; that which Rondelet takes for the Dalian Nerita, is a Kind of Sea Snail, that is found in the Mediterranean, and which the Waves cast upon the Sands in the same Places with the Solen. These Snails are as big as the Land Snails, and pretty like them in Shape; but they are much thicker, smoother, and usually redder within; outwardly they are met with of different Colours. Rondelet affures us, that the Sort he speaks of are mark'd or sported with Black, but that this Kind is scarce; I have seen some all White, others that have been of a Rose Colour, and several other Varieties: Together with the Nerita some Aporhecaries confound a fmall Plant, whose Leaves are round and thick, which the Ancients call'd Cotyledon, or Umbilicus Veneris Navelwort, because the Leaves pretty much resemble the Shape of the Navel. This Plant is pretty scarce at Paris, but very common in Languedoc.

53. Of Sweet Hoof.

THE Unguis Odoratus, or Sweet Hoof, is likewise the Lid or Cover of a certain Shell Fish, call'd Conchylium; this is of different Sizes; but for its Shape it resembles the Claws of some Anito burn, and of an unpleasant Smell, like that of Horn, which is quite contrary to its Name; and I cannot understand what Reaion the Ancients cou'd have to call it Unguis Odoratus, as well because it has no Relemblance to Hoofs, if it has any to the Claws

in the 38th and 39th Chapter of the same Scent is so far from being agreeable, that it like to that of the Purple Fish; that which is found in the Lakes of the East-Indies, amongst the Spicknard, is of a very pleasant Smell, because the Fish to which it belongs feed on this Plant. This Author prefers that which comes from the Red Sea, to that which is found on the Coast of Babylon, which is blackish, and much less. They burnt in his Time one and the other for the Vapours, because, says he, that this Smell comes near to that of Caftor, which confirms what I said, because the Smell of Castor, and the other, is very disagreeable: Wherefore it shou'd no longer be call'd Unguis Odoratus, but only Blatta Bizantia, that is, of Constantinople. As this is very scarce, they substitute in its Place the Solen, both Male and Female, whereof take this Description.

54. Of the Solen or Finger Shell.

His is a Shell of two Pieces, that are joyn'd together at one End, Pomet. from four to five Inches long, and from seven to eight Lines in Breadth, hollow like a Spout, arched above, thin, square at the Ends; and which, when joyn'd together, are like a small Trunk, or one of those Cases wherein they put a Knife and Spoon for the Table. Rondelet calls the Male Solen, that whose Shell is bluish, or of a Slate Colour, and this is agreeable to Apuleius's Sentement; and he calls the female Solen, that which has the white or ruffet Shell, and which is generally less than the others. These two Species are very common in the Mediterranean, fo that I have gather'd them upon the Sands in the Isles of Hieres, and on the Coast of Martigues in Provence, and in Languedoc, on the Coast of Peraut and Cette. They meet with, besides, a Kind of Solen mals; it is thin, of a brown Colour, easie on the Coast of Normandy, whose Shells are white, inclining to Purple, but they are thicker than those of the Mediterranean, and about seven Inches long, and above an Inch broad.

Together with these Shells aforemention'd, we sell the Inside of the Oyster-Shells, after or Talons of any Animal, as because the they have been calcin'd to a Whiteness, and made

whole, because they fall into Powder like of Nature. Lime. Oyster-Shells calcin'd make very good Lime, which is the Reason why the Dutch use nothing essentially some Authors, as semblance to a Finger, is a small Exmuller, a German Physician, says in a Shell, something longer than one's Finger, lential Bubo's, being apply'd upon them: He observes likewise, that they serve instead of Pearl. Besides these Shells there are Abundance of others which I have not mention'd for three Reasons; the First, because they are not used; Secondly, because I have little or no Knowledge of 'em; and in the third Place, because Mr. Tournefort, who has the compleatest Knowledge of these Curiosities, he has by him, whereof I have seen above the Dentalium which is scarce. three Thousand different Sorts; so that from

made into Troches. It is observable that 'tis such a vast Variety, we cannot but admire difficult to preserve or keep those Troches the Lusus Natura, the Pastime, or Sporting

Treatife of his of Animals, that the Oyster- and an Inch thick, made up of two Pieces Shells burnt are very proper to cure pefti- like the Muscle, but joyn'd together at the End, and hollow like a Pipe: This contains in. it a little Fish of the same Shape, which when it wou'd feed, puts the Head out at the End of the Shell that is not joyn'd together, and draws it in again like the Tortoife; this Fish is good Mear, when well wash'd from the Sand, whereof it is full; the Fleth is a little viscous, and it sometimes casts a Light like the Phosphorus: The Shell is alcaline. defigns in a little Time to give the Publick an resolutive, drying, opening, &c. being taken exact Account of them, which he might do inwardly. The Dose is from half a Scruple with a great deal of Ease, as well from his to two Scruples; they use it externally in great Understanding, as the large Number fome Cerats and Oyntments, in the Place of

BOOK the Second, of the Second Volume.

Of METALS.

PREFACE. Of FOSSILS in General.

W Understand, by the Word Fossil, every Thing that is found in the Bowels of the Earth; as Metals, half Metals, Minerals, Bitumens, Stones and Earths. Now, as my Design is to begin with Metals, I shall explain myself, that by the Word Metal, I mean a Body that is hard, of a Substance alike in all its Parts, thus may be inelted by the Fire, is ductile, and may be extended by the Hammer, and is different from Minerals, Bitumens, Earths and Stones, as shall be shown hereafter. There is a great Dispute concerning the Number of Metals, some will have them to be Nine, others Eight, others Seven, and others Six, because they would have Quickfilver, Pewter, Glass, and Founders Metal, to pass for Metals; but as this Opinion is not well grounded, because Glass and Founders Metal are Things made, I shall therefore agree with them, who have concluded that the Number is Seven, which anfivers to the Seven Planets, and the Seven Days of the Week; that is to say, Gold to the Sun and to Sunday; Silver to the Moon and to Monday; Iron to Mars and Tuesday; Quickfilver to Mercury and Wednesday; Tin to Jupiter and Thursday; Copper to Venus and Fryday; and lastly, Lead to Saturn and Saturday. Some Persons will have it, that Mercury is but a half Metal; but as I think it not proper to discuss that Matter here, I shall refer the Reader to the Chapter of Mercury or Quickfilver, and begin here with Gold, which is the Chief of all other Metals.

I. Of Gold.

OLD is a Metal yellow, foft and malleable, the most noble, pure, precious and weighty of all other Metals. Gold is brought from many Parts of the World, but it comes in largest Quantities from the Mines of Caravana in Peru, and of Valdivia in Chili, where it is so common, that 'tis used for the same Uses as we do Pewter, Brass, or Iron; and tho' it is the richest Country for Gold of any that has come to our Knowledge, yet the Inha-bitants are very poor, by Reason of the Dearness of all Provisions. There are several other Places where Gold is found, but the greatest Quantity comes from Peru, because there it is most commonly found, and is resin'd with the least Trouble and Expence.

Africa, Asia, and Eurorpe, produce Gold of four different Sorts. The First is in Bits of different Sizes, which is so fine and soft, that you may make an Impression upon it with a Seal, as if it were upon Wax. This Natural

.. Cold is call'd Virgin Gold.

The Second is in Grains, the Third in Oar, the Fourth in Sand. These three last Sorts are generally found after great Rains, in those Places through which the Torrents of Water have past; and even in the Bottom of Rivers, especially such as have run through some Mines their whole Employment to fearch for it in the

Cadiz, by the Spanish Galleons. The Company in France bring from Senega a Gold which they call En Aurillet; this is in different Works wrought by the Savages, which they fetch from the Kingdom of Galan, which is near that of Tombut. The Dutch likewise bring Gold from Sumatra, and other Places of the East Indies, together with their Peppers, and other Commodities of those Counteries. There is yet another Sort of Gold, which is that of the Alchymifts, of which I shall say nothing, because I have no Knowledge of it, leaving it to those who have Time enough to amuse themselves, and feek the Ruin of their Families in an Operation that does not feem to have much Poffibility in it: But this may be said of them, that as Gold is the best of all Metals, so they call it by the Name of the King of Metals; and that, by the Means of their Chymistry, they extract from it many Things that are useful for Human Life. The first Preparation that is made of Gold is the Refining of it, which is done after four Manners, to wit, by Antimony, which is the best : The Second by the Coppel ; the Third by Aqua Regia; the Fourth by the Cement. They call Gold by the Coppel, that which is refin'd by Lead, and Ashes depriv'd of their Salts, or Bones burnt, which is that the Goldbeaters use to make Leaf-Gold of. That which of Gold; as those of Daszin and Diguvira, in is refin'd by Aqua Regia, is call'd Gold by Depar-Africk, where there are Negroes who make it ture or Precipitation. Laftly, That which is call'd Gold by Cement, is that which is refin'd Bottom of the Rivers. The greatest Part of by the Means of a Paste, composed of Brick, the Gold we have in France comes from Peru, common Salt, Sal Armeniac, Sal Gem and whence it is brought in Wedges, or Ingots, to Urine. There is a Fifth Refinement of Gold by Mercury, but as these Matters are too long to be here decided, I shall refer the Reader to the feveral Books of Chymistry which treat thereof.

Regulus of Gold.

The Regulus of Gold is Gold refin'd by Antimony, and afterwards thrown into a Brass Mortar, warm'd and greas'd in the same Manner as that into which is thrown the Regulus of Antimony. This Operation is feldom us'd because of the Charge, and is seldom done but by such as have the Curiosity of vigorous Operation of mercurial Medicines. having Gold that is extreamly fine.

Leaf Gold.

We call Leaf Gold that which is refin'd by the Cupell, and then by the Help of a certain Kind of Skins, or Beafts Bladders (which the French Workmen call Baudruche) is by Hammering reduc'd to Leaves extream-

ly light and thin.

It is a surprizing Thing to think that a Gold-Beater can reduce an Ounce of Gold into 1600 Leaves, each of which shall contain feven and thirty Lines square. And Monfieur Furetiere lays, that they can reduce Gold into one hundred and fifty nine Thoufand ninety two Times its superficial Size; and the Wire-Drawers into fix hundred and fifty one Thousand six hundred and ninety Times. There are five Sorts of Leaf Gold amongst the Gold-Beaters of Paris; the finest and most durable is that which is fold to the Sword-Cutlers, wherewith they work their finely gilt and flowered Blades: The Second is that which they fell to Smiths and Armorers to gild their Iron and Weapons. The Third is that which is us'd in Gilding of Books. The Fourth is us'd by Gilders of Wood, and Painters. The Fifth is that us'd in Physick, which the Apothecaries put into several of their Powders and Confections, as well for the Virtue of it, as for Ornament.

They grind these Leaves of Gold, or the Clippings of them, which they call Bractreole with Virgin Honey, and then put them into Muscle-Shells, and this they call Gold in Powder, or in the Shell; this Gold, so prepar'd, is us'd for Painting in Mi-

niature.

Aurum Fulminans, or Crocus of Gold.

The Aurum Fulminans, or Crocus Auri, is Gold in File-dust dissolv'd in Aqua Regia, and precipitated into a brown Powder, by Oil of Tartar per Deliguium, pour'd upon the Diffolution. This Powder dry'd has much more Force, and takes Fire sooner than Gun-Powder. This Preparation of Gold is a fudorifick very proper in the small Pox, being given from two Grains to fix: It is likewise good to stop Vomiting, and suppress the too

Amalgamation of Gold, or Gold Powder.

The Powder, or Ground Gold, is made by Calcining Gold with Mercury and Sal Armoniack, and this Calcination is call'd Gold in Powder, or amalgamated, and is us'd by the Gilders, because it spreads easily: There are some who omit Sal Armoniack in their reducing Gold to Powder, and only make use of Mercury. There are several other Preparations of Gold; as Tinctures, Extracts, and the pretended Aurum Potabile. But fince those are not receiv'd by all the World, I shall only fay that which all a-gree in, that the greatest Property of Gold is to give all Sort of Conveniencies to him that is Master of it.

Gold, in Latin, Aurum, fol, Rex Metallorum, is the most solid, Lemery. weighty, compact, and precious of all Metals: It is generated in many Mines in different Parts of the World, but the greatest Quantity is brought in Bars or Ingots, from Peru to Cadiz, by the Galleons of Spain. There is Gold likewise found in Asia, Africa and Europe, sometimes in a Mass, which is call'd Virgins Gold, sometimes in Grains, sometimes in Oar, sometimes in Dust or Spangles.

The First is call'd Virgin Gold, because it comes pure out of the Mine, without any further Need of Preparation, and is so soft as to receive the Impression of a Seal, and is found in greater and leffer Pieces. The Second is in Grains, but not so fine as the First.

The Third is a Gold mixt with other Metals, and the Marcasite or mineral Stone,

or Spangles mixt with Sand.

The three last Sorts of Gold are generally found at the Bottom of Rivers after great Rains and Torrents of Water, and the Negroes either dive for it, or wash it out of the Sands.

Gold is refin'd feveral Ways by the Cupell, by Departure, by Cementation, and by An-

imony.

The Refining of Gold by the Cupell and Departure, is done after the same Manner as

that of Silver, of which hereafter.

Gold is refin'd by Cementation in the following Manner: They make a hard Paste with Sal Gem, and Sal Armoniack, Chalk and Urine; this Paste is laid with Gold, stratum super stratum, in a Crucible, which is plac'd in a Furnace, and a large Fire being made about it, the Matter is left to calcine for ten or twelve Hours, that so the Salts may penetrate the Foulness of the Gold, and throw it off in Scoria; and so the Crucible being taken off from the Fire, the Gold will

be found separated from the Scoria. Gold is refin'd by Antimony after this Manner following: They weigh the Quantity of Gold they would refine, and make it red-hot in a Crucible, by a strong Fire, and then throw in four Times the like Quantity of Antimony in Powder, foon after which the Gold will melt, for Antimony is full of a faline Sulphur, which not only very much augments the Heat, but piercing into the Metal divides the Parts very speedily; then the impure or gross Matters that were in the Gold are swallowed up by the Antimony, to which they readily joyn themselves, and so separate into Scoria, of which the more volatile Parts are diffipated into Smoke: They Fire 'till it sends forth Sparkles, and then they pour it into an Iron Mortar warm'd and to the Bottom: When all is cold they empty the Mortar, and with a Hammer separate the Regulus from the Scoria. They weigh

which are form'd together as a Stone, call'd to remain: They continue a very violent Gold Oar. The Fourth is a Gold in Dust, Fire about the Crucible 'till the Fumes are gone off, and the Gold remains in Fusion clear and neat, then they turn it into a Mortar as before; and when it is cold they feparate the Scoria that are found underneath it, then they wash it and wipe it with a Cloth. This Regulus of Gold is as fine as it possibly can be, and this Way of Refining is preferable to all others, when they would cleanse Gold exactly from other Metals.

The Cupell will cleanse Gold very well from Marcafites, and even from fuch Metals as are call'd imperfect, but not from Silver; this Metal is so bound up and joyn'd with Gold, that Recourse must be had to the Departure before 'tis possible to sepa-

rate them.

The Departure separates Gold from Silver, but when the Gold is precipitated it generally carries with it some Portion of Silver.

The Cementation often leaves the Gold undischarg'd of some Particles of other Metals, and the Salts entring into the Gold diffolve a little of it. But Antimony is a Devourer which spares no other Metal but Gold; yea, it will oftentimes gnaw off some light Portion of it, and by that Means create some Displeasure to the Resiner.

The Degrees of the Fineness of Gold are call'd Carars; a Carat of Gold is of the Weight of a Scruple, or twenty four Grains, and by Consequence twenty-four Carats

make an Ounce.

Gold that is entirely fine is call'd Gold of twenty-four Carats; because if you put an Ounce of fuch Gold to the Proof, it will not be diminish'd; but if an Ounce of Gold wast a Scruple in the Proof, it is Gold of twenty-three Carats; if it wast two Scruples it is Gold of twenty-two Carats, and so of Jeave this Matter in the Midst of a great the rest. But many Refiners believe that there is no Gold of twenty-four Carats; for let them refine it never so well, there will greas'd, beating it about 'till the Regulus fall ftill remain some light Portion of Silver. Gold easily mixes and unites with Quickfilver, and this is what is call'd Amalgama of Gold: To make it, they put Gold cut into this Regulus and put it into a Crucible over very minute Pieces into a Crucible, leaving a strong Fire to be melted a second Time, it to be red-hot; to this they put eight then by little and little they throw in three Times as much Quickfilver, ftiring it with Times as much Saltpeter to purify the Gold a small Iron Rod, and when they find it infrom any of the Antimony that may happen corporated, they cast it into an Earthen Velto take away the Blackness, and they separate the superfluous Mercury, that is not well united to it, by putting it into a Cloth, and preffing it gently with the Fingers. They throw a great deal of Quickfilver upon Gold, that it may charge itself with it as much as possible; for the more Mercury enters into the Amalgama, the fofter it will be, and the more pliable; but Gold can receive no more than a certain Quantity, because when its Pores are full, the rest is useless.

The Amalgama of Gold is us'd by the Gilders, because it is most easily spread over the

Work prepar'd for it.

Gold, when refin'd, will be extended by the Hammer more than any other Metal; the Gold-Beaters reduce it into very thin Leaves, which they put into little Books: These Leaves of Gold are us'd for Gilding; they are us'd likewise in Compounding of Medicines, and are preferable to all other Preparations of this Metal; not only because they are easily mix'd, but because they appear like Spangles, which beautify

and fet off the Composition.

As Gold is the most weighty, the most compact, firm and beautiful of all Metals, so it has likewise been esteem'd the most perfect; and a numerous Sect of Philosophers, call'd Alchymists, have thought that the Production of Gold was the principal Defign of Nature in all Mines; and that it had been obstructed from its due Course by some Accident, when it produc'd other Metals. But may very reasonably believe that Iron, Lead, Copper, and other Metals that are call'd imought to have, according to their own Na- the Manners of Working, which they have ture, as well as Gold. This Sentiment of invented to arrive at the Perfection of their the Alchymists has led them into another Designs: They have spar'd neither Time, Chain of Reasonings, which are not more Pains, Watching, Care, nor Money; and a just than the former: They believe that they great many of them having spent the better can perfect the imperfect Metals, by supply- Part of their Life in this Labour, have so ing the Failure of Nature, and confequently exhausted their Spirits, their Healths, and that they can make Gold. It is this Opera- their Pockets; that they have fallen into a tion which they call the Great Work, or the deep Melancholy, next to Madness, into in-Search of the Philosophical Stone: To arrive curable Diseases, and a most milerable Poat which, some of them make a Mixture of verty. these Metals with some Matters proper to re- But the ill Success of these Alchymists has fine 'em, and calcine them a long Time in not hinder'd other Persons from entring the

fel full of Water, where it cools and remains a strong Fire, to arrive at their Perfection, foit as Dough; they wash it several Times as if Nature had wanted Heat to produce them.

> Others put Metals into a Digestion upon the Fire, in faline and piercing Liquors, fo to draw out the Mercury, which they fay is a Matter dispos'd to be reduced into

Others feek for a Seed of Gold in Gold itself, and believe they shall find it there, as they do the Seed of a Vegetable in a Vegetable, and that of an Animal in an Animal: To accomplish this, they endeavour to open Gold by Diffolvents; and they put it to digest by the Fire of a Lamp, or the Heat of the Sun, or that of Smoke or Fume, or some other Degree of Heat always equal, which approaches nearest to that which Nature makes use of.

Others look for the Seed of Gold in the Minerals, as in Antimony, where they pretend there is a Sulphur and a Mercury, like to that of Gold; others hope to find it in Vegetables, as in Honey, Manna, Rosa solis, and Rosemary; and others in Animals, as in the Spittle, the Blood, the Brain, the Heart,

and the Excrements.

Others imagine they can catch the Seed of Gold by fixing the Rays of the Sun after a certain Manner; for they, as several Astrologers, look upon it as a Thing uncontestable, that the Sun is Gold melted in the Center of the World, and that it is cupell'd by the Fire of the Stars that surround it; and that the Rays which it casts, and that shine on all Sides of it, are the Sparkles which rife from it this Opinion is not approv'd by all; for one after the same Manner, that they do in Refining Gold by the Cupell.

I should enlarge too much if I wou'd here perfect, have that Perfection which they repeat all the Fancies of the Alchymists, and

ter themselves, that they shall find the Means of making Gold does so far preposes their Minds, that they become incapable of Thinking feriously of any other Thing, than what may contribute to the grand Work: They think no Body reasons so well as the Alchy- in Peoples Eyes, and engage to blow the mists; they treat all People that don't come Bellows, and bear Part of the Charges with up to their Sentiments as Atheifts, and they them. affume to themselves, exclusive to all others, the Name of the True Philosophers, or The Philosophers by Way of Excellence: If they speak, 'tis by Monosyllables; if they explain themselves, it is in such obscure Terms, and heightned Expressions, that very often they don't understand themselves: If they write, it is that it may not be comprehended; if they work, 'tis with Mystery, giving sublime Names to all the Ingredients they make use of. Gold is by them call'd the Sun; Silver the Moon; Tin Jupiter; Lead Saturn; Sal Armoniack, the Solar Salt, or the Mercurial Salt of the Philosophers; Nitre is Cerberus, or the infernal Salt; the Spirit of Nitre, the Blood of the Salamander; Antimony the Wolf, or the Root of Metals or Proteus, and so of the reft. Their Preparations are all Philosophical; and even the Bricks of which they build their Furnaces participate of that Quality. Befides, these Gentlemen look upon themselves to be far above all other Persons; they think they are the Depositaries of the richest Secrets of Nature; they explain every Thing to their own Advantage; and according to their own Prejudices they call themselves the Holy Nation, and the Elect People. King Solomon, according to their Opinion, was of the Sect of Alchymists, because Gold was so common in his Days. The Spirit of God which swam upon the Water, and is spoken of in Genesis, was the universal Spirit of which Gold is made. I could relate a great many more of their Opinions as extravagant as those, but I am afraid of growing tedious to the Reader.

. That which the Chymists aspire to by their great Labours, is, as I said before, to find out the Seed of Gold; feveral of them pretend that they have attain'd to it, and are in full Poffession of it, and it is this Mercury, for it amalgamates with it in the which they call the Powder of Projection; they attribute to it the Virtue of Turning

same Lists, the Hopes with which they flat- any Metal whatloever into Gold, but we see no Experiments of this pretended Fact: Those that have been made upon several Occasions, have been only Tricks or Slight of Hand; some of which I have described in another Place, by which they throw Dust

It is easy to apprehend that the Seed of Metals is not to be found in them, because their Production does not arrive by Vegetation, as in Plants, but proceeds from a Congelation that is made by Waters, loaded with Salts of different Natures, and fulphurous Earth, as they have acknowledg'd, who

have wrought in them.

The Alchymists say that their Seed of Gold is a Mercury which they have drawn from Metals: But besides that it is still a Question, whether they can draw a Mercury from Metals, it is not probable, that if they can draw it, it should be the Seed of

They affirm likewise, that the Seed of Gold is in every Thing, and that it abounds in the Spirit of the Universe, and that Dew, Manna and Honey, having the Impressions of this Spirit, the Seed of Gold may therefore be drawn out of them. We agree with them, that the universal Spirit serves to the Production of Gold, as it serves to that of other Mixtures; but it is by an Acid that it contains, and not by a Seed, at least the Name of Seed is not given to this Acid; and then there is no more Reason to think that the universal Spirit abounds in the Seed of Gold, any more than in the Seed of the groffest Mineral, the most useless Plant, or the most despicable of Animals.

Although all the ancient Authors have efleem'd and prescrib'd Gold as the greatest Cordial, when taken inwardly, yet we do not find this Virtue to be in it; for Experience shows us, that it passes by Stool in the same Weight and the same Condition in which it was taken, because it is too hard to be penetrated and digested by the weak Acids of the Body: But it is proper, and very convenient for them who have taken too much Body, and fixes it in such a Manner, that i hinders it from Acting as it did before; this

Mix.

Mixture is afterwards thrown out by the Stool or Urine. It is likewife good for Colick Pains of the Glaziers and Plummers, which are caus'd by the Vapours of their Lead.

Mercury clings so easily to Gold, that if a Person salivated with Mercury has any Pieces of Gold in his Pocker, they will commonly grow white in a little Time without rouching them. But this Mercury is expell'd by putting the Gold in the Fire, and afterwards rubbing it with a little Oil of Tartar.

The Aurum Potabile of the Chymists is nothing but a Chimara; they pretend that they can resolve Gold into its first Principles, and separate the Salt and Sulphur of ir, so that they cannot be reviv'd into Gold any more than the Oil and Salt, that are drawn from a Vegetable, can be put into the same Plant again. They call these pretended Salts and Sulphurs of Gold, Potable Gold, because they can be dissolved in all Sort of Liquors, and be taken as a Potion: They attribute to it the Virtue of being a Preservative against all Sorts of Illness, that it cures all Diseases, prolongs Life, and in a Word, is the Universal Medicine.

The noble Qualities of the Aurum Potabile, are grounded upon many other Chimeras. The Alchymists and Astrologers affirm, that there is a great Correspondence, and a peculiar Intercourse between the Sun and Gold, by the Influences which they communicate one to the other; and that Gold is therefore consequently imprest with the Influences of the Sun: That the Sun is the Heart of this great World, and having that Quality it ought, by the Means of Gold us substitute, displays its Virtue over the Heart of the little World, which is that of Man: That the Quality of the Sun is to warm, revive, rejoyce, and cleanse the Body from all ill Humours, and to render Life happy, long, and free from Diftempers: That all their Principles being certain, there is no Room to doubt that Gold has these excellent Virtues; but that as this is a Body very hard and folid, its Qualities are fo enclos'd and concentred, that they can-not be well perceiv'd without reducing them to their first Principles, which are the Sulphur and the Salt that they call Aurum Petabile.

It is not difficult to confute all these Arguments, they are so weak, and have so little Foundation, that they fall of themselves. First, The Alchymists take it for granted, without proving it, that Gold can be resolv'd into its first Principles, so that Salt and Sulphur may be drawn out of it; for this Metal is fo folid, and fo conjoyn'd in its infenfible Parts, that they could never find a Means to dissolve it radically, nor to feparate any of its Principles, notwithstanding all their Pains and Application; they extend, they divide, they attenuate, they rarify it into insensible Parts, by Means of their Disfolvents, but hitherto they have done nothing but disguise it; for it still remains entire Gold, and is ready to be reduced to its primitive State by Fusion. The other Preparations of Gold, which some Persons would put upon us for the Salt and Sulphur of this Meral, are found, when firictly examin'd, to be nothing else but Gold extreamly rari-fy'd, dissolv'd, and disguis'd by some armoniacal Salt; but this Gold is revived again by freeing it from this Salt, and making it pals through the Fire.

But though in Process of Time they should come to be able to dissolve Gold radically, so as to extract the Salt and Sulphur; yet it would still remain a Question, what would be the Virtue of these Principles? Which could only be known by the Experiments that should be made with them; but there is Room to believe, that the Effects would be different from what they would perswade us. The Intercourse of Gold with the Sun, and the peculiar Influences that they would have it receive from thence are Fancies, which carry no Probability with them: We see the Sun displays its Warmth and Rays upon all Bodies, without any Appearance of its

making a Distinction.

Although there is no Aurum Potabile in the World, and that it is uncertain what Effect it would have, could we find it, yet the very Name of Potable Gold imposes upon a great many People, and gives an Opportunity to Mountebanks to cheat 'em with Impunity, for they draw Tinctures from some Ingredients, whose Colours come near to that of Gold, and fell it at a very great Rate, under the Title of Aurum Potabile. This Sort of Cheat is what generally suc-

ceeds

Favour of fuch Medicines as carry great Names, and have a specious Appearance: Men are likewise apt to cry up that which is dear, so the Name and the Price gains an Estimation. It likewise often happens, that these Tinctures which go by the Name of Aurum Potabile, produce some good Effect, because they can take Care to draw it off from such spirituous Menstruums, as comfort the Heart, and expell ill Humours by Perspiration; then it is cried up sor a Miracle, and the Effect is attributed to the Gold which has no Share in it, as having never entred into the Liquor.

Others who are less Cheats than those I have spoke of, dissolve Gold in some spirituous Liquors after the common Manner; and as the Diffolution of Gold is always yellow, they make it pass for the True Aurum Porabile, altho' it is only Gold divided, and may be reduced to the same State that it

was in before.

Besides, I cannot see that the Persection of Gold must necessarily give it the Preserence in Phyfick to other Metals; on the contrary, this Perfection, in an exact Conrexture of the Parts, and a very great Solidity, is the Cause why this Metal is so much the less dispos'd to be digested and distributed into the Vessels of the Body. Iron, Mercury, and the other Metals, which are call'd Imperfect, are much more tractable, for we put them into a Way of penetrating through the whole Body, and producing confiderable Effects: What is Perfection with the Workman, is often an Imperfection with the Physician, and we make better Use of the mixt Bodies, whose Principles are naturally rarified and diffolvable, than of those which through too much Firmness are rendred as it were incorruptible.

2. Of Marcafites.

Mder the Name of Marcafite, according to Monfieur Morin, Doctor of Physick of Montpellier, is to be understood a metallick Mineral, which is loaded with Sulphur and Earth; this swal-

ceeds best; for Patients are preposses'd in those Parts which being more subtil, mercurial, and less fix'd, are evaporated, so that there remains nothing but a Body, which is vitrified and useless, that they call Letier, or Lytharge.

Altho' from this impersect Mineral, no Metal can be drawn by Fusion, whatever else be mixed with it to promote the Separation, yet it is much fearch'd into by all true Chymists, and prefer'd to that from which Metals may be extracted, which some improperly call Marcafite; and it is with just Reason, for the Principles not being yet well united, it is the less difficult to separate them, and confequently to determine and multiply them by their Operations.

It is for this Reason, that they who work in Mines throw them by, and separate them from the Oar, which is so much the better, by how much less Earth and Sulphur there is

It is easie to conceive, by what I have faid, that each Metal has its proper Marcafite, which is, as it were, its Seed or Bud ; and the more it ferments, and the nearer it approaches to a metallick Perfection, the farther it goes from the Nature of a Mar-

casite.

It must, nevertheless, be considered, that we fell commonly but three Sorts of Marcafites, which are those of Gold; of Silver, and of Copper. That of Gold is usually a little round Ball, very weighty, and difficult to break; that of Silver is almost of the fame Make, but is not of fo clear a Colour; that of Copper is either round or long, and oftentimes irregular, and of the Largeness of a Tennis Ball: This Marcafite is very hard, but if you leave it in a moist Place, the Moisture will penetrate it and turn it all to Vitriol, and to come to nothing. When you break in Pieces these Marcasites of Copper, they are of a yellow Gold Colour, and radiated like a Sort of Sun. These are the Descriptions of the common Marcafites; but for those of Iron, Tin, and Lead, I cannot, to this Day, learn positively what they are. There are some who affirm positively that the Load-Stone is the Marcafite of Iron; the Bismuth, or natural Tin-glass, that of Tin; and the mineral Zink or Spelter, that lows up the metallick Matter which gets of Lead: And there are others who say that loofe, and the Sulphur carries up with it Tin and Lead are the same Thing, and differ only in Colour, grounding themselves upon this that the Ancients call'd Tin, white Lead, and Lead, black Lead, so that there cannot belong to them two Sorts of Marcasites; and my Sentiments must concur with theirs, feeing it has not been possible for me to find the natural Glass of Tin, as I shall show

It is remarkable, that tho' I say that we fell but three Sorts of Marcasites, yet there are very few large Druggists Shops, where there are not found several other Sorts, as the Square, the Flat, the Grey, the Black, the Yellow, and the like; and this happens, because they give the Name of Marcasite to every Thing they don't know, and take to be a Mineral; and the Buyer not knowing what it is any more than he that fells it, it happens that they who work it are deceiv'd, and lose their Labour.

I have by me a white Marcafite full of Veins of Gold, which was brought from the Isles, and was affirm'd to me to be the true Gold Oar.

The Marcasite, Magnesia, Bis-Lemery. muth, Zinck, Spelter, or Tin-glafs, is a metallick Mineral, of which there are several Kinds, for all Stones which contain more or less of a Metal, are call'd by this Name; but three Sorts are more principally intended by the Word Marcasite, that of Gold, that of Silver, and that of Copper.

The two First are in little Balls of the Bignels of a Nut, almost round, weighty, brownish without, but of different Colours within; for one has the Colour of Gold, the other of Silver, but both bright and thining.

The Marcafite of Copper is as large as a little Apple, round or oblong, brown without, yellow and cristalline within, bright, sparkling, and easie to be broken.

The Marcasites are taken out of the Mines; they contain a great deal of Sulphur and vitriolick Salt, especially that of Copper.

They are resolutive, and are applied outwardly: The pure white Magistery of Tinglass, made with pure Spirit of Nitre, being mixt with Pomatum, is an excellent Cosmetick to whiten the Hands and Face, and is cupell'd Silver diffolv'd in Spirit of Nitre, likewise good for Tetters, Ringworms, &c.

3. Of Silver.

Silver, which the Spaniards of Peru call Platta, is the best and most Pomet. perfect Metal, next to Gold; it is

white, hard, extensible, and very agreeable to the Sight. The most famous Mines for Silver are those of Rio de la Plata, that is, the River of Silver, and of Potocchi in Peru. which were discovered in the Year 1545: The Enclosure, which bounds the Extent of 'em, is call'd Potofi, which is a Mountain fituated in a flat Campain, rifing in the Form of a Sugar-Loaf, above a League in Circuit below, and a Quarter of a League on the Top. The Silver coming out of the Mine is refin'd with Mercury or Quickfilver, and there have been some Years in which they have taken out of these Mines three thousand hundred Weight of Silver, pure and neat; and for the Refining it, have made use of fix or seven thousand hundred Weight of Quicksilver; for the more they refine it with Quickfilver the better it is. There are feveral other Silver Mines in the Indies, in Europe, and even in France.

As Silver is of itself a very pure Metal, and especially when it has been well refin'd, the Chymists perform several Operations upon it, the first of which is its Purification.

Purification of Silver by the Cupell.

Silver purified by the Cupell, is Silver which is put into melted Lead, and by Means of the Fire, and a fecret Quality of the Lead. it works upon the Silver as the White of an Egg does upon Sugar when it is well refin'd: they granulate it after the Manner that we fee it, which if it be Proof ought to be well refin'd, white, and very thining: This Sort of Silver is made use of in several of the following Chymical Operations.

Of the Crystals of Silver, or the Vitriol of

They extract the Cristals of Silver from and when the Moisture is almost evaporated Vol. II.

plied to the Flesh, make an Escar as the Lapis Infernalis.

Of the Lapis Infernalis, or the Silver Caustick.

The Infernal Stone is fo call'd, because of its burning Quality, and its black Colour; it is made of cupell'd Silver dissolv'd in Spirit of Nitre, afterwards perfected by the Fire and pour'd into a Mould, warm'd and greas'd on the Infide, where growing cold it coagulates, and becomes a Stone of the same

Shape that the Mould has given it.

This Stone ought to be made Choice of in little Pieces of a Finger's Length, dry and folid, of a brown Colour, approaching to that of Iron, which will neither burn the Fingers nor Paper, unless they are moistned, and does not melt when expos'd to the Air without Difficulty, but will immediately burn any Place that is moistned as soon as it is laid upon it, which are the true Marks of the Infernal Stone when rightly prepar'd with the cupell'd Siver : You ought to reject that which is green, and turns the Paper it is wrapt in of that Colour, that grows wer, and is eafily diffolv'd in the Air, because it is made with Copper. Some use the common Plate Silver, or the Burnings of old Silver Lace, but the Stone they make is not fo good as the other. This Stone is much us'd by Surgeons to burn and consume dead and superfluous Flesh, but special Care must be taken not to touch the found Flesh, because the Stone will not fail to burn it, and cause an Extremity of Pain, especially if the Place be wer.

The Lapis Infernalis has the Property of Staining Marble and Entring into it, so that upon Sawing the Marble the same Figure shall appear within that was on the Outside, and will never wear out; you work with it as if it were a Crayon, and the Colour it

makes is Black.

Of the Tincture of Silver:

The Tincture of Silver is a Dissolution of Silver in the Spirit of Nitre, which they precipitate by Means of a Solution

they take away the Crystals, which being ap- of Salt; then they put this Silver Calx into-Spirit of Wine acuated with volatile Salt of Tartar, and volatile Salt of Urine, and thence draw a beautiful, celestial, blue Tincture, very much recommended against the Epilepfy, the Palfy, Apoplexy, and the other Diseases of the Brain: The Dose is from fix to fifteen or fixteen Drops.

Silver, in Latin, Argentum, or Luna, is a Metal very compact, Lemery. weighty, hard, white, smooth and

thining, very extensible by the Hammer, and refifting the Cupell: It is taken from several Mines in Europe, but the greatest Quantity comes from America, and especially from Le Rio de la Plata in Peru, where it is often found intermixt with small white Crystalline Stones, and with Gold, Copper or Lead; being taken out of the Mine, it is refin'd with Quickfilver, and then transported. They who would render it as fine as possible, refine it by the Cupell and by Departure in the following Manner.

They make the Cupell red hot in the Fire, and they put four or five Times as much Lead as Silver to cupell it: They let the Lead melt and extend itself, so that one Part of it, in a little Time, enters into, and fills the Pores of the Cupell. They cast the Silver into the midst of the Cupell, where it is not long before it melts; they blow the Fire 'till it is so strong, that the Flame encompasses the whole Matter; then all the Impurities unite with the Lead, because that Metal being sulphureous it cleaves to and embraces the gross Bodies better than the Silver. The Fire drives the impure Mixture to the Circumference in the same Manner as Scum or Scoria, and the Silver remains fine and clean in the Middle. They know that the Refinement is perfected when no more Fume arises; then they pour the Silver into a Mould, to let it cool, and this they call Silver of the Cupell. The Scoria of Silver mixt with Lead make the Litharge, of which I shall treat hereafter. These Scoria confift of the Parts of some other Metals, or the Marcasites, which were mix'd with the Silver when it was taken out of the Mine.

It is to be noted, that Silver being thrown into melted Lead runs sooner into a Fusion, than if it were put alone to melt in a Cru-

cible,

cible, because the sulphureous Parts of Lead contribute to the speedy Fusion of Merals.

This Purification of Silver clears it from all other Metals but Gold, which likewise resists the Cupell so that one cannot be alrogether affured, that this Silver of the Cupell is entirely Silver; therefore if one would separate it from any little Quantity of Gold that may be in it, Recourse must be had to another Operation, call'd the Departure, and this is the Manner of the Proceeding.

They melt together in a Crucible by a strong Fire, three Parts of Silver, and one Part of Gold; they throw this Mixture, when melted, by little and little into cold Water, where it coagulates into Grains; they throw away the Water, and dry these Grains, and then put them to dissolve in two or three Times as much Aqua fortis; the Silver is dissolv'd, and the Gold is precipitated to the Bottom of the Vessels, because it cannot be

penetrated by this Diffolvent.

It is to be remark'd, that in this Operation they mix Gold with the Silver, that if the Silver should contain any small Quantity of Gold, it might be drawn and precipitated along with that which was added: This precipitated Gold is call'd Gold by Departure, and they can eafily turn it into an Ingot, by melting it in a Crucible over the Fire, with a little Borax, and pouring it into a Mould.

This Diffolution of the Silver is thrown Cupell has but one quarter Part Copper, to an earthen Vessel, in which there is a to twenty-four Parts of Silver. into an earthen Vessel, in which there is a great deal of Water, and a Plate of Copper, where it is left for five or fix Hours, or 'till all the Silver is precipitated, and flicks to the Copper Plate, and then they gather it together and dry it; and it is this they call the Precipitate of Silver, and sometimes the Calx, or Chalk of Silver. The Water in which this Precipitation was made becomes Blue, because of some Portion of Copper diffolv'd in it, and is call'd the Second Water; it is us'd to deterge, and to eat proud Flesh, being applied outwardly.

Silver also may be precipitated, by mixing Salt Water in the Diffolution; for the Sea Salt will produce the same Effect as the Parts of the Copper, that is to fay, by pushing rudely against the Points of the Aqua fortis, which hold up the Particles of the Silver, it will break 'em. and make 'em let go Luna, because they imagine this Metal to be

nothing to support it, will, by its own Weight, fall to the Bottom.

The Silver so precipitated is cast into an Ingot, by melting it in a Crucible, with a little Salt-Peter, and afterwards pouring it into a Mould. This Silver is the finest of all, and of twelve Penny Weight, if it has fo much; but there is always some little Allay of Copper to be found in Silver, let it be never so well refin'd.

That which is call'd a Carat in Gold, is a Penny Weight in Silver; fo an Ounce of very fine Silver is of twenty Penny Weight, or twenty-four Scruples, which make twenty four Times twenty Grains: This Ounce of Silver should not be diminished by the Proofs; but if it lose a Scruple by the Cupell, the Silver is but of nineteen Penny Weight fixteen Grains; if it loses two Scruples, it is seventeen Penny Weight twelve Grains; but they don't express themselves by twenty Penny Weight in Silver, as they do by twenty-four Carats in Gold, for they double two Pence in Silver, and fay Silver of twelve Penny Weight, to express Silver of the utmost Purity; Silver of eleven Penny Weight and an half, Silver of eleven Penny Weight, to denote the Degrees of its Fineness, and so of the rest.

Plate Silver contains one Part Copper, to twenty-four Parts Silver; and Silver of the

They beat the purest Silver, and reduce it into very fine and thin Leaves, which we make use of in Medicine; one may likewise use the Precipitate of Silver instead of these Leaves.

Silver is proper for those who have used too great a Quantity of Quickfilver, either by Frictions, or taken inwardly, for it binds or amalgamates itself with it in the Body, and depriving it of its Weight, takes away its Virtue: It may be taken from four Grains to a Scruple, and a larger Dose may be given without Fear of any Danger. It is pretended by feveral Authors to be an infallible Medicine for Diseases of the Head and Brain; but Experience shows us, that it is of no Ule in such Cases.

The Astrologers and the Alchymists call it their Hold, so that the Silver having of the same Matter as the Moon, and that its Nourishment.

4. Of Iron or Mars.

I Ron which the Chymists call Mars, because of the Influences they pretend it receives from that Planet, is a Metal the hardest, driest, and most difficult to melt of all others: It is compos'd of an Earth, a Salt, and a Sulphur, ill digefted, and ill united, which makes it subject to be rufty. There are Mines of Iron in Spain, Germany, Sweden and England: The best in France are those of Champagne, Lorrain, and Normandy; there are some in Burgundy, Berry, and other Places. An Iron Mine is sometimes found within an Inch of the Surface, fometimes one, two, three, four, five, or fix Foot deep. The Oar is found in different Manners, sometimes in Pieces, and fometimes in Sand. I shall not discourse here of finding out Mines by the magical Rod, which is of Hazel, because Monsieur, the Abbot de Vallemont, has lately written a very exact Treatise about it.

The Manner of taking Iron from the Oar, and making it into cast Iron, commonly call'd Sow. Metal.

After the Oar is taken from the Mine they wash it in a running. Water to separate the Earth from it, and then carry it into large Furnaces, where covering it with Coals, Flint-Stones, and Potters Clay or Earth, by the Means of two Mill, it melts like Lead; and after scum-

it receives continual Influences from her for or rather cast Iron, they take up the running Metal in great Iron Ladles, to put it into Moulds made in deep Sand, or else of the same Matter, that is to say, of Cast Iron.

It is also to be observ'd, that the finer the Work is to be, the longer is the Metal to remain in Fusion; for the Matter continues but twelve Hours for the coarser Works, and fifteen or eighteen Hours for the other. The Cast Iron of France cannot be touch'd by the File, as that of Germany and other Places, but must be polish'd with Masons Dust or Emery.

Of Iron in Bars and other Kinds.

When they would reduce this Metal into true Iron, they take one of these Lumps of Som Metal and carry it to a Sort of Forge, which has Turf of Earth in the Middle, where is a Hole into which the Matter flows as it melts. They melt the Metal by the Means of Charcoal, and two great Pair of Bellows which are mov'd by Water. As this Matter melts, the Refiner stirs it with an Iron Bar, and the more vigorously the Matter is stir'd, the more kindly will the Iron be, and the better qualified. After it is well stir'd, they carry the Matter, which is hardned, with large Tongs to an Anvil, where, with a great Hammer, they beat it to force the Greafe out of it, or rather the Earth or other forreign Matterthat might have remain'd in it, and then the Iron is made and need not be refin'd again, but will endure the Filing. When they would reduce it to Bars, or any other Fashion, they take this Mass, which the Workmen call the Piece, and carry it to anolarge Pair of Bellows wrought by a Water- ther Forge, and by the Help of Charcoal, and two Pair of Bellows wrought by two ing from it a Drofs, which when cold be- Men, they make it red hot, and then carry comes like Glass, they stay the Bellows, it to the Anvil, and with a wooden Hammer, and with an Iron Bar open a Hole which is with Iron at the End of it, they make it as in the Bottom of the Furnace, and imme- long and as thin as the Hammerer pleases. diately comes out as it were a Stream of Fire, There is one Thing remarkable that is of which runs into Holes, made in the no small Consequence, which is, that seeing Nature of Moulds, of fix, seven, to ten the Hammerer can reduce but half this Piece Foot long, and a Foot broad. The Iron into Bar, because he must hold it fast by the thus thrown into these Moulds is what other Part, he therefore, to cool it the sooner the Smiths call Sam Metal. 'Tis to be re- that he may go to work upon the other, mark'd, that when they would make Can- throws it into Water, and this is the Cause non-Bullets, Mortars, Weights, Backs of that the French Iron is brittle; but this might Chimneys, or other Works of this Som Metal, be easily remedied, by letting it cool of ways the Quenching it in Water that makes it so churlish and brittle, but it proceeds oftentimes from the Mineral, or from its not being well. stir'd: I don't disagree to this, but there is a Proverb which says, Ill to Ill can mever be good; therefore what can easily be remedied ought not to be made worse: And this is the Manner of making Iron into Bars.

Of Iron in the Gad, and of Iron Wire.

Iron in the Gad or Rod of Iron, is made from Iron in the Bar, which has been heated in a Kind of Furnace, and by Steel Mills cut into the Shape and Figure we fee it in. The Iron Wire is made of these Rods drawn through little Holes, after the Manner that they make Wax-Candles: They begin with the largest Hole, and finish by the little one, still diminishing the Size of it.

Of Iron Plates, and of Black and White Iron.

The Iron Plates are made of Bars heated and made thin with Hammering. There are two Sorts of Plates, the great and small. They make the Black Iron by Beating the Place with smaller Hammers: But besides this, in Germany they make a white Iron, of which they make feveral Utenfils: This is a fost Iron reduc'd into thin Plates, and afrerwards cover'd with Tin, in which Operation it is said they use Aqua fortis. There is white Iron made at Nevers, but that of Germany is most esteem'd because it is more white and brighter, and will not rust as the other.

Of Steel.

Sreel is an Iron that has been melted feveral Times, and quench'd in common Wa-Druggs, as shall be shown hereafter.

The best Steel is that which comes from Germany, and is call'd Steel of Carma, from a Village in Germany, call'd Kernent, where the best Steel is made. This Sort is call'd Seeel of a double Mark, and is us'd in Making fuch Instruments as are extreamly fine; as Of the Saffron of Mars; or the Crocus Martis Lancets, Razors, Graving Tools, &c. The second Sort is that they call Rose Steel, because when 'tis broken there appears some- tive, is a Preparation of Iron or Steel, which

itself: It may be objected, that it is not al- thing in it like a little Rose of the Colour of the Eye of a Partridge; and besides, the Casks that they come in are mark'd with a Rose. This Steel is in little Bars from one Foot to two Foot long, and half an Inch thick. There are likewise several softer Sorts of Steel which are but the Refuse of the Rose Steel, which some call Steel of the fingle Mark. We have likewise Steel from Hungary, Italy, and Piedmont. There are likewise feveral Sorts made in France, as those of Vienne, of Rive in Dauphine, of Clamecy in Auvergn, of St. Differ in Champagne, and it is made likewise at Nevers, and at La Charite: and this they call Common Steel.

But of all the Sorts of Steel in Europe there are none that comes near to that of Kernene for Goodness, because amongst the hundred and fifty Iron Mines that the Germans are possest of, there are no People but those of Kernent, that know the just Quantity of Arsenick, Tar, Orpiment, Sublimate, Antimonie, white Coperas, and other Druggs, of which they compose their Water to dip it in ; and this, in few Words, is the Reason why no good Steel is made but in Germany, and that many Persons ruin themselves by endeavouring to counterfeit it: But as to the Tempering of common Steel, they make use of

nothing but common Water.

There was formerly a Steel which came from Damascus, and was very good; and it we will believe Mr. Furetiere, the Temper of it was made by the Impressions of the Air, when a Horseman Riding full Speed held it in his Hand and brandith'd it in the Air. He also says, that they temper it by Whetting it upon a moist Goats-Skin:

Good Steel ought to be brittle, of a fine' Grain, and as white as it can be made. The Chymists make several Operations with it, of which hereafter. As for the Filings of ter, or in a Water compos'd of several Steel, they are of some small Use in Phyfick, and the best and most natural is that of Needles; its Proof is by putting it upon a lighted Candle, that which burns by halves, and puts out the Candle; is mix'd with the Filings of Iron.

The Crocus Martis, which is call'd aperi-

Plates of Iron to the Dew. The Second is by Sprinkling the Filings of Iron with Rain make Salt of Saturn, as thall be shown here-Water, or Water mixt with Honey; and after some Time you shall have thence a Rust of a brown Colour. These Preparations of Iron or Mars are very long, but very good for the Diseases hereafter mention'd. But as of it, the whitest and driest is the best. these two Sorts, as I have said, require much Trouble, and have but a bad Colour : They chuse rather a Third Way, which is to take a Piece of Steel, and take a white or Flame Heat of it in a Smith's Forge, and then applying to it a Roll of Sulphur, melt it down, and so melted, put it into a Crucible together with Sulphur, and reduce it into Powder of a beautiful red Colour; others use the Filings of Iron instead of Steel.

The aperitive Saffron of Mars is commonly call'd Crocus Martis aperitious, or aperiens, and is an excellent Remedy for the Droply, and to cure the Green Sickness. The Dole is from ten Grains to forty in some Opiat, Conserve or Lozenge, or as Mr. Lemery fays, with some Purgatives.

Of the astringent Saffron of Mars.

The aftringent Saffron of Mars, otherwise Crocus Martis astringens, is one of the former Preparations of Mars wash'd several Times with Vinegar, and afterwards put into a Crucible, and by a forceable Calcination for five or fix Hours, is reduc'd to a reddish Powder, but not so beautiful as that above.

The Use of this Crocus is to stop Blood when voided, either above or below: It is taken in a like Dose as the former, in Medicines proper for the Malady. The Ancients have given both of these the Name of Crocus or Saffron from their reddish Colours.

Of the Salt or Vitriol of Mars.

There are two Sorts of Salt of Mars or Iron, but the best is that which is made by putting the Oil of Vitriol and Spirit of Wine in an Iron Pan, and when it has staid there three Weeks or a Month, you will find at the Bottom a greyish Salt, which you must dry, and then preserve it carefully. The other Salt of Mars is made by putting the

is made after three Manners. First, by exposing Filings of Steel into distill'd Vinegar, proceeding in the same Manner as you would after. The first Salt of Mars is an excellent Remedy against Obstructions: The Dose is from four to twelve Grains in any Liquor proper for the Distemper. As for the Choice

Of the Oil of Mars.

They call improperly the Oil of Mars or Iron, a Salt of Iron resolv'd into Liquor in a Cellar. Some People use this Oil as the Salt with this Difference, that they do it in a larger Dose.

Of the Chrystals of Mars.

They extract the Chrystals of Mars by putting the Filings of Steel into Water, and putting upon it a good Spirit of Vitriol, and by putting it in a Cellar, they draw thence Chrystals of a greenish Colour, which being dried may be made use of to the same Purpoles as the Salt or the Oil, but they must be given in lesser Quantities, because of their great Acrimony. Some Persons pretend, that by a Retort they can draw a Spirit of Vitriol from these Chrystals; but as this Spirit must be very weak, I should not advile any Body to trouble themselves about

Of the Tincture or Syrup of Mars with Tartar.

They draw from the Rust or Filings of Iron, by the Help of Tartar and boiling Water, a blackish Tineture; which after having been evaporated and reduc'd to the Confiftence of a Syrup, is what they call Tin-Eture, or Syrup of Mars; others cause almost all the Moisture to evaporate, and so make that which we call the thick Tingture or the Extract of Mars.

They attribute to these Tinctures the Property of being very good Aperitives; their Doses are different, for the thicker the Tinctures are the less of 'em must be taken; so the ordinary Dole may be from a Dram to half an Ounce.

They likewise draw from the Rust of Iron, with the Lees of Wine, or the Juice of Quinces, or any other aftringent Jaices, a Tincture, Syrup, or Extract, to which they attribute a binding Quality. The Dose is likewise according to their Thickness, but the common one is from ten Grains to half a Dram in some astringent Liquors.

Of Mars Diaphoretick.

The Mars Diaphoretick is made of the Rust of Iron mix'd with an equal Quantity of Sal Armoniack, and by a subliming Vessel, they draw thence Flowers which they diffolve in Water, and then precipitate them by pouring upon the Dissolution the Oil of Tartar per deliquium. They dry this Powder, which being dried is what they call Mars Diaphoretick, altho' the diaphoretick Virtue, which it may have got from the Sal Armoniack is not very great, because it is almost all carried away by the Water.

Iron in Latin call'd Ferrum or Lemery. Mars, because the Astrologers pretend that this Metal receives Influences from the Planet of that Name, is a Metal very hard, dry, and the most difficult to melt of all others. It is naturally compos'd of a vitriolick Salt, of Sulphur and Earth, very ill digested, and bound together, which makes it rust so easily. There are several Mines of it in Europe, and especially in France, in Champagne, Lorrain, Normandy, Burgundy and Berry. They take it up sometimes in a Marcasite, that is of the Bigness of Pig-Nuts, and of the same Colour, streak'd with shining Metallicks, sometimes in Sand. They wash this Marcasite to get the Dirt from it, then they put it into great Furnaces made on Purpose; they cover it with Charcoal, Flints and Potters Clay, and by Means of a very violent Fire, blown by huge Belresembling Enamel; then they let it run into of Druggs. Moulds, for great Wedges, about ten Foot

by the Moisture of the Air, which the La-Of the Tincture or aftringent Syrup of Mars. tins call Ferrugo; it is aperitive for the Urine, and aftringent for the Belly, proper for all Illness caus'd by Obstructions, and to stop Looseness.

> Iron made red hot in the Fire, and feveral Times quenched in Water, renders the Water aftringent and proper for Diseases of the Belly. The Waters of a Smith's Forge retaining some saline and vitriolick Particles of the Iron, are aftringent for the Belly, and aperitive for the Urine.

Steel is Iron render'd more hard, more compact, more fine and polish'd, by Calcination and Dipping it in Water: To do this, they lay Iron, and the Hoofs of Animals, Stratum Super Stratum, in a Furnace made on Purpose, near the Mines; they put Fire to it, and when the Metal is foftned and almost melted, they dip it in cold Water, that so the Porcs which were open'd by the Force of the Fire may immediately be thut up; and they oftentimes repeat the Calcination and the Dipping.

The Hoofs of Animals burnt in the Fire produce two Effects; the First is, That they diffipate the most volatile, the most saline, and the most rarified Particles of the Metal. The Second is, That a Portion of the volatile Salts which these Hoofs do naturally contain, is introduc'd into the Pores of the Metal. Now this Salt being rendred an Alcali by the Calcination, it absorbs and destroys the Points of the vitriolick Salt, and the Acid which remain'd in the Iron; so that the Motion of this Salt being relax'd, the Meral does no longer rarify itself so much; which may contribute to give a good Quality to the Steel; but the principal one that it gains comes from the Water it is dipt in, which is made on Purpose. They make Steel in many Places of France, Italy, Picmont and Hungary, but the best is made in Germany, at a Town call'd Kernent. Steel ought to be brittle, of a fine Grain, and white. They that would be at large inftructlows, they put it into a Fusion; they scum ed, as to the different Sorts of Steel, may thence a Matter that is as it were vitrified, read what Mr. Pomet has written in his Book.

The Filings of Steel are proper to remove. long, and a Foor thick; this is call'd by the Obstructions, for the Jaundice, and for the Fench, Gueuse, commonly Sow Metal. The Diseases of the Spleen; the Dose is from a Rust of Iron is Iron penetrated, and rarified Scruple to a Dram,

quench'd call'd chalibeate Water, is an Aftrin- plication. gent, and is good against a Looseness.

It is remarkable, that in Iron there shou'd' be two fuch very differing and opposite Qualities, as of Drying and Moistning, Opening and Obstructing, Astringing and Relaxing; these Qualities are thought to reside in the mixt Part of the Body, the Relaxing Quality in the faline and more volatile Part, the Aftringent in the Earthy, and that which

is more fixt.

The Salt of Iron is made in the following Manner. Take Oil of Vitriol, or of Sulphur per Campanam, two Pounds; Water two Gallons; mix them well in a well glaz'd earthen Jar, by dropping the Oil into the Water, and stirring it well with a wooden Rod; put into this Mixture, of Filings of Iron, two Pounds or more, stiring it for half an Hour, then let it settle; decant off the clear Water, filter and put it into a frying Pan, which over a Charcoal Fire evaporate to Driness, and so there will remain a pure white Salt at the Bottom. This Salt cures and opens the worst Obstructions in the Womb or Bowels; It sometimes purges, and may be given to half a Scruple in a Glass of Wine alone, or sweetned with Syrup of Violets.

After the Filings of Iron are turn'd into Ruft, and a Tincture extracted from thence, the Faces are a Kind of Crocus made without Fire, which are drying and binding, good against Fluxes, Bloody Flux, Go-norrheas, Whites in Women, &c. They of Blood, the Flux of the Terms and Hemorrhoids; they strengthen the Liver, dry

going to Bed.

The Copperas, or Vitriol of Iron, is made in great Quantities by a Cementatory Calcination, then perfected by Diffolution, Eva-

poration and Christallization.

Not only the Salt of Iron, but the Tinctures are said to open Obstructions of the Reins, cure Ulcers in the Reins and Bladder, help the Cholick, Weakness of Stomach, or Want of Appetite; give Eale in the Gout, and other Pains of the Joynts, cause it is found natural some have given it

The Water in which red-hot Steel has been both by inward Taking, and outward Ap-

The Rust or Vitriol of Iron mixt with Vinegar and applied, is good against Tetters, Ringworms, Scabs, and running Sores, or Breakings out, though of many Years Continuance, especially if a little Roch Alum be mixt with it, taking away the St. Anthony's Fire, or any other leffer Heats and Inflammations.

5. Of Quickfilver.

Hat which we call Quickfilver, crude and running Mercury, Hydrargyrie, liquid Silver, or the Water of Silver, the Proteus of Nature, the fugitive Salt, or the mineral Spirit, is according to Mr. Charas, a metallick, or mineral Liquor, of a volatile Nature, found in the Mines, and compos'd as is believ'd of a white sulphureous Earth, and of its own proper internal Mercury, which the Philosophers think to be one of their Principles, in like Manner, as their Salt and their Sulphur. Some Authors, and Mr. Charas amongst the rest say, that Mercury is not placed in the Rank of Metals, but that they have given it the Name of a Half Metal, because that neither being hard nor malleable as the true Metals are, yet it easily unites itself to any other Metal, especially to Gold, to which it often serves as an Intermediate to join it to other Metals. Its Colour of Silver, and the Disposition it has to Motion, is the Reason why they call it Quickdry up Ulcers and Wounds, stop all Fluxes filver; from the same Colour; and its Fluidity it is nam'd Hydrargyrum, that is to say watery Silver, or the Water of Silver: They up Water in Dropfies and running Ulcers, in call it Mercury from the Analogy which it the Legs. It is given from a Scruple to half bears to the Planet of the same Name, or a Dram, in a proper Vehicle, every Night because of the Variety of the Shapes it can take suitable to what the Heathens represented of that Deity. 'Tis likewise for the same Reason and the Diversity of Colours that may be given it, that 'tis nam'd Proteus, and from its Fluidity and Volatility, it is call'd the Fugitive Salt,

Quickfilver is found in the Mines after different Manners, sometimes enclos'd in its own Mineral, and sometimes as fluid and of as changeable a Figure as we see it, and be-

the Name of Virgin Mercury; they find it larger than elsewhere, but the Trees which fometimes amongst Earth and Stones, and are near the Quickfilver Mine rarely produce very often embodied in a natural Cinnabar, as Fruits or Flowers, and their Leaves come we shall see hereafter. They who take out later than in other Places. Quickfilver from its Mine, or to speak more of great Iron Retorts to separate it from its Mineral, or the other hard Bodies with which it is joyn'd, and by the Means of Fire and Ground, the Slaves who take it up have nothing to do but make it run through Chamois Leather to cleanse it from its Impurities. Gold, Silver, and Mercury, may read Acc-Hungary and Spain; that of Hungary is carried to Vienna in Austria, and from thence to Holland, from whence we have it; that of Spain is transported to Peru to serve to purify their Gold and Silver, as I have observ'd before. The Spanish Quickfilver was common enough in France; but because this Quickfilver, being put upon Silver a little heated, had the Property of Gilding the Superficies, and of giving the Silver a very fine Vermillion Colour, this rich Quality, according to some Alchymists, which in Reality is nothing, and the Difficulty there is of having it at present, because the King of Spain has expresly prohibited the Transportation of it into other Countries, has made it so scarce as it is at present, as well as the natural Cinnabar. Some modern Authors have said, that there is Quickfilver found in the Indies, Poland, Germany, and even in France, which perhaps may be true: But notwithstanding all the Pains I have taken, I could never difindeed, that a Mine of Cinnabar was lately found in Normandy, between St. Lo and Cha- weighty, that Mr. De Furetiere says, that a but the great Charges of it oblig'd them to ftop it up again. Mr. Lemery fays, that of the Seine Water weighs but seventy Quickfilver is usually found at the Top of Pounds; that is to say, a Vessel which will grow upon these Mountains seem greener and will contain nine hundred forty seven Pounds

One of the Signs that discover a Mine of properly from the Places it lies in, make use Quickfilver, is when in the Month of April or May there come thick Mists or Vapours out of one particular Place, which cannot rise far in the Air because of their Weight: fresh Water, into which it falls, they ren- It is to such a Place that they go to look for derit fluid, so as we commonly have it. The this Metal, and especially if by Chance it Oar of the Mercury is fo like the Antimony is fituated oppositely to the North Wind, of Poicou, that if it were not for the Rays for then they think the Mine will prove best: or Streaks which are somewhat whiter, there They likewise find a great deal of Water ais no Body that could find the Difference; bout these Mines, which it is necessary to and when it is found running or liquid in the draw off at the Foot of the Mountain before

you can come to work them.

They who would know more concerning There are but two Places in Europe from fla, of the Indian Mercury, who treats of it whence they take Quickfilver, which are very largely. You should chuse such Quickfilver as is white, running, clean, of a lively and beautiful Water, and reject that, which being put into any Copper Vessels, such as Scales of a Ballance, or others, appears like Lead, that is to fay, when its Colour is brown, and it leaves Tails or Trains behind it, as if it were roapy, or sticks to the Hands when you handle it, and is form'd into little round Balls, which is of no small Consequence, because the greatest Part of the Quicksilver that is consum'd, is made use of by Lookinglass-Makers, Goldsmiths, Burnishers, Gilders, and others; and if by Mischance, or Roguery, in such a Parcel of Quicksilver as is us'd at one Boiling, there should be one Pound of Lead, it would spoil their Works.

Besides these Qualities before-mention'd, which ought to be in Quickfilver, one may prove it by putting a little of it in a Silver Spoon, and letting it evaporate over the Fire; and if there remains a yellow Spot, it is a Mark that it is natural; or if it leaves a cover the Truth of the Matter; this is true black one, it is a Sign that it is mixt with Lead or Tin. Quicksilver is a Matter so very rentan, near a Place call'd Le Fosse Rouge; solid Foot of Mercury weighs nine hundred forty seven Pound, and that a cubical Foot Mountains cover'd with white Stones, which hold thirty five Pints of the Water of the Riare as brittle as Chalk; the Plants which ver Seine, according to the Paris Measure, Vol. II.

of Quickfilver. As Quickfilver is so extream- us'd in France and other Places as Cinnabar, ly weighty, so it is no less strong; since a fifty Pound Weight of Iron, being put upon a Bouillon of Quickfilver, which as it comes from Holland generally weighs a hundred and threescore or fourscore Pounds, it shall no more fink in it than if it were an Ounce, which I could never have believ'd unless I myself had feen it. As to the Properties of Quickfilver they are so great that they exceed Imagination; and some Persons pretend, that a Dram Weight of Quickfilver has the same Effect as any greater Quantity whatever; and that if they prescribe it in a large Dose, as they do sometimes, especially in the Miferere on Twifting of the Guts, it is only that it may pass the faster, and disintangle the Bowels. It is likewise a surprizing Thing, that into whatfoever Shape you metamorphose Mercury, you may make it return to discover'd about forty Years since in Nor-its first State of Nature, and that with a ve- mandy. ry small Diminution. Borrichius, a Danish Chymift fays, in his Book of Chymiftry, that more difficult to be found than other Metals, having operated upon fome Mercury for a Twelvemonth together, and having reduced it into several Forms, it took its own Shape, at last, by the Means of a little Salt of Tartar. The great Confumption of Quickfilver, especially in France, is the Reason why the Dutch have rais'd it two Stivers of their Money in the Pound, which is three Sous or 3 Pence of ours; and fince they have, for a long Time, engross'd that Merchandize, it is not fold there under fix and thirty Sous the Pound. I shall not here recount the several Virtues that are attributed to this Metal, because feveral Authors have treated of them, nor decide the Controversy, whether it be Reasons: First, Because Quicksilver is easi-Cinnabar into Mercury, we could not afford Fire. it at the Price we do; and all the Mercury

at least there are only some very curious Penple, who resolve to have their Mercury pure and neat, who give themselves the Trouble to revive it. In the Third Place, when the Dutch have a Mind to make their Quickfilver portable, they fix it very eafily, and put it into all Sorts of Vessels, even into Paper, and fend it to them who have the Secret to make it run again without any Charges.

Quickfilver, call'd in Latin, Hydrargyrus, Mercurius, Argentum Vi- Lemery. vum, and by the Chymists, Azock, is a Metal, or half Metal fluid, running, of the Colour of Silver, very weighty, and yet volatile, penetrating, uniting and amalgamating itself with Gold and Silver; it is found in leveral Mines in Europe, as in Hungary, and in Spain, and there is one Mine

As Mercury is a very fluid Body, so it is for it infinuates itself into Earths, and into the Clefts of Stones, so that you often lose the Sight of it when you think you are just going to take it up: People are forc'd to go very deep into the Ground to find it, and the Men cannot work very many Years at it before they have the Palfy, so that few are employ'd in it but Criminals condemn'd to Punishment.

The Quickfilver is not always taken out of the Mine near and running, but it is generally mixt with Earth, or reduc'd into a natural. Cinnabar by some Portion of Sulphur that ithad mer withal. That which has but a little Earth with it may be separated by making cold or hot; but I must say this, that it is it pass through Leather; but when it has a so cold, externally, that it is impossible to great deal of Earth, or other Impurities, it hold one's Hand in a Quantity of Quickfil- must be put into Iron Retorts plac'd upon a ver for the Space of a Quarter of an Hour. Furnace, to which they fit a Recipient full It is wrong to think what some modern Au- of Water, and blow the Fire under the Rethors have written, that the Dutch turn Mer- tort 'till it becomes fierce, and makes the cury into Cinnabar to transport it into other Mercury distill into the Water. Iron Re-Places, and that for these three following torts are the most preferable upon this Occafion, because the Quickfilver endeavouring ly transported in Sheep-skins, put into Barto get to this Metal, separates itself the more rels, and fill'd up with Straw or Shavings: The willingly from the Earth, and is the more fecond is that, if we were obliged to revive disposed to be rarifyed and pushed on by the

One is not always affured of the Purity of that is reduc'd in Holland into Cinnabar, is the Mercury that is fold by the Merchant, for it may be vitiated by some Mixture Cinnabar, this Impurity of what Nature sowhich was made in the Mine, and could not be separated by the Leather, or by the Addition of Lead, or some other Metal or Mineral, that the Sophisticators may have put into it, 'tis therefore necessary to purify it

before you use it.

The Method of the Ancients to purify their Mercury, and as they faid at the same Time to correct its cold Quality, which was so in the fourth Degree, was by mixing it in a Stone Mortar, with Salt and Sage in Powder, and to beat this Mixture for an Hour together with a wooden Pestle, and afterwards to strain it through a Skin, by this Means they render'd it clear and beautiful: Time. But they had only taken off a superficial Impurity which was of no Consequence, which the Quickfilver by rolling about contracted in the Vessels of Leather or Earth it was kept or transported in: If there were any Metal or metalick Matter in the Quickfilver it would pass with it through the Pores of the Skin, and that could make no Separation of it; and as for the pretended cold Quality of the Mercury, that could not be corrected by this Preparation, and the Metal continued in the same Condition as before.

The fure Means of having Quickfilver as pure as it is possible, is to separate it by

Cinnabar after the following Manner. Mix together two equal Parts of Powder of Cinnabar, and Filings of Iron, and fill about a Half, or two Thirds of a Retort with them, place it on a reverberating Furnace; and fit to it a Glass Recipient full of Water, without luting the Joynts; encrease the Fire to the fourth Degree, you will find the Quickfilver distill and fall to the Bottom of the Recipient; keep on the Fire 'till no more will rife, and you will have got thirteen Ounces of running Mercury from one Pound of Cinnabar; wash it, and having dried it with Linnen Cloths, strain it through a Leather. We may be secure that this Mercury is pure, because if any Portion of Metal or Mineral had been mixt in the Mine with the Quickfilver, of which the Cinnabar was made, it would have remain'd at the Bottom of the Vessel, and would not have been by Stool without any Alteration. able to rife with the Mercury and the Sulphur; and if after the Sublimation any strange Body had been mingled with the

ever would be separated by the Revivification or Distillation that I have been speaking of. The Recipient must be fill'd with Water, that the Mercury which ascends in a Vapour from the Retort, may, by the Coldness thereof, be condens'd into a Liquor; but the Joyning of the Recipient with the Retort, must not be luted, because that in the Distillation there always arises a great Quantity of Sulphur from the Cinnabar, which would mix itself with the Mercury if it could not find a Place to get out at, and would reduce it to a Sort of grey Paste, so that it would be necessary to distill it a second

The Iron, upon this Occasion, serves as an Alkaly to feparate the Acids of the Sulphur, which held the Mercury in the Cinnabar; and this Mercury being disingag'd from its Bonds, comes into a Condition of being rarified and push'd on by the Fire: Quick Lime produces the same Effect as the Iron, but then there must be thrice the

Quantity.

The Fluidity of the Mercury proceeds from this, that the infensible Particles, of which it is naturally compos'd, are all spherical or round; for their Figure rendring them uncapable of hooking one into the other, they roul about continually. The same Rea-son explains, why this Meral, though it be fo heavy, should easily be volatilized by the Fire; for its round Parts being always difunited, and having no Tye of one to the other, are all feverally light, and in a proper Condition to be prih'd forward, and elevated by the Fire. That which makes the Solidity and Firmness of Metal, is when its insensible Particles having divers Figures, are so hook'd, bound, and exactly united one to the other, that the Fire has no Power to separate them, so as to let them be ele-

Quickfilver is a Remedy for the Miserere. in which the Patient swallows a Pound or more, that by its Weight it may in its Paffage extend the Fibres of the Bowels, which are twisted in this Destemper; it is voided

They use Crude Mercury to kill the Worms, they boil it in Water, and then give the Patient the Decoction to drink, which

must have taken but a very small Impression let it have boil'd never to long; for the Metal is found to be of the same Weight, and the Decoction has no other Colour, Tafte or Smell, than common boiling Water, and yet it does not fail of producing a good Effect : Care must be taken that the Vessel in which the Mercury is boil'd be of Earth or Glass, and not of Metal, because the Quickfilver would penetrate it. Mercury kills Lice and other Infects that infest the Body; it cures the Itch, Tetters, and Venereal Distempers: It resolves and dissipates hard Tumours in the Glands and other Parts: It removes Obstructions, applied outwardly or inwardly; it is us'd in the Composition of several Unguents and Plaisters; it is one of the best Remedies in Physick, to dislipate and eradicate the groffest, most foul, malignant and inveterate Humours.

One of the most surprizing Effects that Mercury produces, is to raise a Salivation, and so to carry off the very Radix or Root of the Distemper in all Venereal Founcies. To explain this, it must be considered, that the Venereal Virus consists in an Humour that is salt or acid, tartarous and gross, which fermenting by Degrees corrupts the Blood and other Humours, and causes all

the ill Accidents that follow it.

The Particles of Mercury which enter into the Body, either by Frictions of mercurial Oyntments, or by the Mouth, being rarified, are distributed as a Fume, and apply themselves particularly to the Virus, because this acid Matter is more capable of uniting with them than any other Substance: They penetrate the Venom, and are penetrated by its acid Salt, almost in the same Manner as it happens in the Mixture that is made when one would prepare the corrosive Sublimate; the Heat and the Circulation of Humours foon make this Mixture of Mercury and Acid, elevate and sublime itself to the Brain, as the Fire elevates the corrofive Sublimate in a Matrass, upon which the Head, the Gums, the Palate, and the Tongue, are ulcerated; the falivary Vessels are relax'd, and there are the same Pains as it the corrofive Sublimate was put upon some Part that was excoriated: These Accidents are accompanied by a copious and involuntary Salivation, which is maintain'd by the Acrimony of the Humours, that descend from

the Brain, and the Relaxation of all the (alivary Veffels: This Flux continues 'till all the acrid, virulent, and mercurial Humours are evacuated.

Since there is nothing able to subdue these Venereal Distempers so speedily, safely, and effectually as Mercury, it will be necessary to see the several Ways, by which it may be prepared as well for external as internal Uses.

An Oyntment commonly called, the Neapolitan Oyntment, is prepar'd after the following Manner for external Uses.

Take of Quickfilver cleans'd and strain'd through Leather, three Ounces; kill it in a Marble or Wooden Morrar, with a sufficient Quantity of the Oil of Turpentine, adding of Hoggs-Lard, six Ounces; beat the Mercury and the Lard well together, until the Quickfilver disappear, and make an Oyntment to raise a Salivation after the following Manner.

First bleed the Patient once or twice, or oftner if you see Occasion for it; then purge him according to the Strength and natural Constitution of his Body, making use of a Bath, half Bath and Broths, alter'd with proper and fuitable Herbs, so as to render the Humours more fluid and fitting to rife upon a Salivation, taking Care that the Salivation be rais'd, carried on, and promoted leafurely and gradually; for in this Respect most of our old Surgeons have err'd, and not a few of our late Surgeons do still err, in raising a Salivation too hastily, and to such a Height, that the Mouth Tongue and Tonfils are frequently feiz'd with a Gangrene; wherefore a Salivation ought to be rais'd by degrees, and the Mouth often look'd into, so as that the Signs of an approaching Salivation may be duly and clearly discern'd: Wherefore placing the Patient before a good and clear Fire, being first cover'd with Cloaths fuitable to his Distemper; begin the Friction at first with half an Ounce of the Neapolitan Oyntment, anointing him from the Soles of his Feet to the Calves of his Legs: Upon the fecond Night use about two Ounces more of the same Oyntment, in Anointing him from the Calves of his Legs to his Knees: And upon the third Day let him rest, clpe-

especially if you perceive the Signs of an approaching Salivation, that is, an extraordinary Heat and Driness of the Mouth, a Swelling of the Gums and Salival Glands, attended with a frequent Spitting. Upon the fourth Day, having fearched the Mouth to try whether the Orifices of the excretory Vessels be seiz'd with an Inflammation, or small Ulcers, another Friction is to be perform'd with two or three Ounces of the Oyntment, anointing from the Knees to the Middle of the Thighs; and upon the fifth Day the Patient is to rest again, abstaining from the Use of the Oyntment, especially if you observe the Ulcers to enlarge, and a laudable Salivation to come on; but this depends upon the Nature of the Distemper, and the Strength of the Patient; for some require but four Frictions, others more; but nothing is more to be feared and avoided than too high a Salivation: Wherefore, if a fourth Friction be required, it is to be performed with two or three Ounces of the Oyntment, anointing from the Middle of the Thighs to the Loins, Hips, and privy Members; and if a Friction should happen to be required a fifth Time, you are to anoint the Hips and privy Members overagain, extending to the Arms, and all the upper Parts of the Body, except the Head Neck and Breaft.

If the Tonfils should happen to be seiz'd with a Gangrene, by Means of too high a Salivation; then having taken away some Quantity of Blood, you must instantly have Recourse to Purgation, than which there is nothing more effectual, and it is to be frequently repeated, if necessary, and the Sweet Mercury, or the White Eagle. Cloaths wherewith the Patient was covered, during the Time of Friction, must be raken off; fuch a Salivation is approv'd of, whereby about two or three Pints of a viscuous or glutinous Humour are discharg'd every Day, and which is fully accomplish'd in the Space of twenty or twenty five Days, or a Month at farthest. After the Salivation is over the Patient is to be expos'd to the Air, and refresh'd and recruited by the Help of a Bath, Broths, and Foods of a good Nourishment; or else he must make use of a Dier-Drink made of the sudorifick Woods and Roots for

fome Time after.

Some raise a Salivation by Emplastration, duly rais'd.

making Use of the Plaister of Vigo, otherwife call'd the Plaister of Frogs, with a fourfold Quantity of Mercury; others raise it with the Fumes of Cinnabar, and this is call'd Fumigation, which is a very good Way, especially for such as are troubled with Warts, Chaps, and Swellings about the Fundament.

Salivation is also rais'd by the Help of Crude Mercury taken in at the Mouth.

Take of Crude Mercury an Ounce, well cleans'd and kill'd with Venice Turpentine; of the Conserve of red Roses, half an Ounce; of red Coral prepar'd, half an Ounce; of which take from half a Dram to one or two Drams, 'till fuch Time as a due Salivation rises.

The most common Preparations of Mercury for the Venereal Distemper, are these which follow: Sweet Mercury, or the white Eagle; the mercurial Panacea; Turbith Mineral, Mercury precipitate, white, red, and green, &c. for Mercury. like Proteus, can be chang'd into several different Shapes, but by the Force of Fire it still returns again to its own Nature, which

the Chymists call Reviving.

Sweet Mercury is thus prepar'd: Take of Sublimate Corrofive Mercury, and of Crude Mercury, of each what Quantity you please; mix them well together, and put them in a Glass Body, to the Height of one Finger, or two; then sublime them with a flow Fire gradually, and separating the Sublimate from its Dreggs, powder it over again, and sublime it three or four Times over, mixing it well; and this is call'd

The Panacea of Mercury is made by Subliming of Mercury ten or twelve Times over: This Panacea will sooner raife a Salivarion than Sweet Mercury, which is sometimes apt to purge downwards; they are both of them prescrib'd from ten Grains to

half a Dram.

Take of Sweet Mercury twelve Grains, powder it, and make it up into a Bolus, with a sufficient Quantity of the Conserve of Roses, or the Mucilage of Gum Tragacanth; to be given at Nine a-Clock at Night, giva ing the next Night fifteen Grains, and the third Night twenty, 'till the Salivation be The The Panacea of Mercury is to be us'd after the same Manner, by encreasing the Dose of it gradually, according to what Height you have a Mind to raise the Salivation.

A great many use to prescribe sweet Mercury one Day, and a purging Potion upon the other Day, endeavouring by that Means to cure the Venereal Distemper without Salivation, or essential they mix sweet Mercury with Purgatives, and give it in Pills, Bolusses or Opiats.

Take of Sweet Mercury and Diagrydium, a Dram; of Lozenges of Coloquinitida, a Scruple; powder them, and with a convenient Quantity of Venice Turpentine, make

a Mass of Pills for five Doses.

White precipitate Mercury is thus prepar'd: Take of Mercury well cleans'd and ftrain'd, four Ounces; diffolve it in a large Matrafs, or Cucurbite, with three Ounces of Spirit of Nitre, adding to the Solution, of fair Water, two Pounds; and pour again upon this laft Solution of falt Water, two Pounds; and then the Mercury will, by little and little, precipitate or fall to the Bottom in the Form of a white Powder, which is to be sweetned by often washing, drying and burning, or kindling Spirit of Wine upon it. The Dose of the Powder inwardly, is from four Grains to half a Scruple.

But outwardly it cures the Scab, and other cutaneous Diffempers, being us'd after the following Manner. Take of white Precipitate, one Dram; of the Oyntment of Rofes, an Ounce; mix and make an Oyntes.

ment.

Yellow Precipitate, or Turbith Mineral, is thus prepar'd: Take of crude Mercury, four Ounces; pour upon it of Spirit of Viriol or Sulphur, one Pound; put this Solution into a Retort, with a large Receiver, fet it upon a flow Fire, and draw off all the Liquor, until it is dry, and so a white Mass will be obtain'd, which is to be powder'd and dissolv'd in hot boiling Water, and then the Mercury will gradually precipitate in the Form of a yellow Powder, which is to be sweetned by washing and burning upon it Spirit of Wine. This Powder is to be given fron three Grains to four or six. It purges vehemently, both upwards and downwards, but it safely and speedily cures the French Pox.

The Coralline Secret, or the Dragon devouring itself, call'd also Lampandra, is without any other Addition perform'd in the Space of two Months, by digesting Quick-filver in an Earthen Pot with a long Neck, by the Help of a Lamp; for the Mercury is by that Means chang'd into a bright red Powder, to be given from four Grains to six or eight, provided it be first sweetned by burning Spirit of Wine upon it, otherwise it often provokes Vomiting.

6. Of the Mineral or Natural Cinnabar, and likewife of the Artificial Cinnabar.

THE Mineral Cinnabar is a red Stone, heavy and shining, Pomet. which is found in many Places of the World, but the best and most esteem'd comes from Spain. I have taken a great deal of Pains to find the true Name of the Place where Cinnabar is found, because a worthy Person has affur'd me, that he himfelf had feen and gather'd it, and that the best qualified was that of Andalusia, upon the Lands of the Fathers of St. Ferome, and that it was there as common as Freestone is with us: But Mr. Charas has inform'd me, that the great Mines of Cinnabar lay in the Mountains of Sierra Morena, that the King of Spain maintain'd a great many Workmen there at his own Expence and Charges, to ger it thence and fend it to Peru; and as this Relation feems to me to be most probable, I take it for certain, that the large Quantity of Cinnabar that we had heretofore, and the small one we have had lately, came from the Mountains of Sierra Morena; and that the Cheapnels of it, at that Time, sufficiently shows us that it was not difficult or expensive to take it out of the Mines, which may in some Measure favour the Sentiments of that Person, who told me that it was found as commonly as Stones, and that it cost nothing but the Gathering them.

in the Form of a yellow Powder, which is to be sweetned by washing and burning upon it Spirit of Wine. This Powder is to be little Stone as possible; but since the true given fron three Grains to four or fix. It spurges vehemently, both upwards and downwards, but it safely and speedily cures the France Pox.

That Natural Cinnabar is to be chosen of a high Colour, the most shining, and with as little Stone as possible; but since the true france, there are so many Sorts of the other, that it is difficult to describe them all, tho nothing is at present more common than to

ask for the right Spanish Cinnaban; however Operations, where Mercury revived from they who sell make no Scruple of giving one Cinnabar is necessary. for the other, and so put off that of St. Lo, tho' very different, because that of Spain is of a dull One, and is less abounding in Mercury; and yet some Persons have maintain'd, that that of St. Lo would yield fourteen Ounthat of Spain, which I cannot contradict, because I have never tried it.

The Mineral Cinnabar of Spain, though much demanded, has no other Property, that I know of, but that skilful Alchymists pretend to make Vermillion of it, and even Gold itself, by fixing it and giving it a Tincture, for in Respect of the Weight it comes very near the true Gold. Mr. Lemery fays, the Natural Cinnabar is a Mixture of Mercury and Sulphur, which are sublimed together by a subterraneous Heat, which is done by Nature almost after the same Manner as they do the Artificial Cinnabar.

Mr. Furetiere has remark'd in his Book. that there is a Mineral Cinnabar which is a very red Stone, heavy, and not hard, refembling the Hamatitis, which contains Quicksilver which drops from it of itself without the Help of Fire: He fays it is found about Carniola; and that it is the same Thing as the Minium of the Ancients, and is a Poison. He says also the Word Cinnabar comes from the Greek Word Kinabra, which fignifies the Smell of Goats, which is an insupportable Smell; because when they dig a Kind of Fossil Cinnabar out of the Ground, according to Matthiolus, it casts fo rank and strange a Smell, that they are fore'd to stop their Nose and Mouth for fear of being suffocated by it. I should not have spoke of this latter Cinnabar, but that I look upon it to be a Falsity, and to dissuade them who would believe that there is a Mineral Cinnabar from which the Mercury flows natu-

The Artificial Cinnabar in the Stone, is a Mixture of Mercury and Sulphur Sublimed and reduced to a Stone, in the Manner we fee it.

The Use of Cinnabar is as I have said, to draw thence a Mercury, for those who would have it clean and neat, as well to make the Mercurial Panacaa, as for other Spain, or Spanish Wool, may be us'd instead

Cinnabar in Stone is also of some small Use to Painters, after it is ground, because it is a bright red Colour, and that of St. Lo of of a more lively Red than that which comes ready ground from Holland; but that which is troublesome in it is, that it is very difficult to dry it: It is likewise of some Use in Phyces of Mercury out of the Pound as well as fick, as well to make Fumigations, as other Remedies, both inwardly and outwardly; but Cinnabar is seldom us'd inwardly. but for Horses, to make a Composition, call'd the Pills of Cinnabar. All the Cinnabar, both whole and ground, comes from Holland; and it is a surprizing Thing to find. that they who make it do it in Cakes of three or four hundred Weight, which they do eafily by putting twenty-four Pounds of the Materials, that is to fay of Sulphur and Mercury together; and when they are sublimed by putting twenty-five Pounds more, and continuing it after the same Manner, 'till the Vessel is full, and this is the Reason why the Cinnabar we see is dispos'd in several

As for Vermillion it is Cinnabar in Stone. ground with Urine or Aquavita, and after it is dried transported to different Places.

There are two Sorts of Vermillion brought from Holland; the Red and the Pale, which happens according as they are more or lessground; for the more it is ground it is the finer, the paler, and the more esteem'd, especially by them who use it in making Sealing-Wax.

That Vermillion is to be made choice of that is well ground, dry, least earthy, the most pure and clean that may be. It is certain that the Dutch when they grind their Vermillion, mix it with fome Lead Oar, or some other drying Druggs, because Cinnabar in the Stone, when ground, is difficult to dry, whereas it is otherwise in that which comes to us ready ground.

Vermillion is much us'd in France by them who make Sealing Wax, Painters, and other Workmen. But Care must be taken not touse Cinnabar ground, and mix'd with any fac Substance to paint the Face; because as Mr. Lemery has well remark'd, there is a great deal of Danger in it, and ill Accidents may attend it; and therefore the Vermillion of

but the Saffron of the Levani or Safra-

They draw from Cinnabar, or Vermillion, by the Help of Fire, and the Filings of Steel, or Quicklime put into a Retort, a Quickfilver that is very pure, and proper for all Uses where Quickfilver is requisite; but as it is very dear, because of the Expence, every Body, except they be very curious, make use of that of Holland: This Mercury ought to be extreamly white and lively.

Cinnabar is a Mineral Matter, Lemery. folid, hard, weighty, bright, Chry-

stalline, of a very red Colour, distinguish'd with Streaks, shining, and sparkling like Silver, compos'd of a Sulphur and Quickfilver, and a little Earth: That which is impure, and of a yellowish Colour, mix'd with a stony Matter is to be rejected, as not being the true Kind of Cinnabar, but rather a Kind of Auripigmentum, or Orpiment.

There are two Sorts, one natural, call'd Mineral Cinnabar, the other artificial, call'd fimply Cinnabar: The Natural is found form'd in Stones that are red, shining, and weighty, in the Quickfilver Mines of Spain, Hungary, Germany, France, and other Parts; that of Spain is accounted the best. That which is most weighty, clean, red, and shining, is to be prefer'd, because the higher its Colour, the more Quickfilver it contains. The Natural Cinnabar has been sublimed by the subterraneous Fires, almost in the same Manner as the Artificial Cinnabar; but as in its Sublimation it is mix'd with the Earth it meets with, it is not so weighty, pure nor beautiful as the Artificial, and contains less Mercury.

The Artificial Cinnabar is made with three Parts of crude Mercury, and one Part of Sulphur, mix'd and put into fubliming Vessels over a gradual Fire: It ought to be made choice of in fair Stones, very weighty, bright, with long, clear, and fine Points, of a brownish red Colour: Each Pound of Cinnabar has fourteen Ounces of Mercury to two Ounces of Sulphur. Artificial Cinnabar being ground upon a Porphyry, is reduc'd to the finest Powder, of a most beautiful red Colour, made use of by Painters, and those who make Sealing-Wax.

of it with Safety, as being made of nothing lepfies, Afthma's; to take inwardly from two Grains to half a Scruple.

Take of Native Cinnabar, fix Grains; of the Conserve of Lime-tree Flowers, one Ounce; make a Bolus to be given in the Falling Sickness.

It is to be observed, that Native Cinnabar, though it hath been us'd and try'd by a great many, will not raise a Salivation; whereas the other Kinds of Cinnabar will do it speedily and eafily, which truly ought to be attributed to the large Quantity of Earth, with which Natural Cinnabar abounds, that restrains it from subliming or rising high enough for that Purpose.

If Native Cinnabar be required to be made use of in Distempers of the Brain, the Cinnabar of Antimony ought to be employ'd in stead of it, rather than the Factitious or Artificial Cinnabar, for this is more properly us'd in Venereal Distempers, and chiefly by

Way of Fumigation. Some chuse the Cinnabar of Hungary, as

being the most solid and heavy, of a solar Nature, replenish'd with the best Sulphur and Mercury.

Native Cinnabar being ground into an impalpable Powder, is almost an universal Medicine, and may be given from ten to thirty or forty Grains, or a Dram, in any convenient Vehicle, for forty, fifty, or fixty Days together, taking it alway at Bed-time; it may be taken two Days together, and sometimes three, and then the next Day to purge after it, and so to continue 'till thirty, or even fifty, or more Doses are taken.

It is an excellent Antivenereal, and being taken inwardly, expells the Pox and all its Foulness out of the whole Body, and all its Juices; it sweetens the Blood, takes away all Manner of Pains and Aches in any Part; all Manner of Swellings, Ulcers, and nocturnal Pains; kills Worms in Young and Old; is a Specifick for Falling Sickness, as faid before; and is excellent for Vertigoes, Apoplexies, Palfies, Lethargies, and all Diseases of the Head and Brain.

The Artificial Cinnabar is thus made: Take common Sulphur in Powder, four Ounces; melt it in an earthen Pan upon Coals, add to it a Pound of Quickfilver, ftir them continually with an Iron Spatula These Cinnabars are made use of in Epi- 'till they are united in a black Powder, and the Mercury ceases to appear; being cold, der'd to take a Note of him that buys it, degrind it in an Iron Mortar to a subtil Powder; put this Powder into a Glass Retort well luted, and distill with a naked Fire; first with a gentle Hear, then with a stronger; then in a few Hours the Mercury and Sulphur will sublime into the Neck of the Retort, the Whole appearing of a greyish red, or a dark red Colour; beat it into a fine Powder, fublime it again and you have a most pure red Vermillion; it has all the Virtues of the former: But Physitians have not given it inwardly so much as the former, though it be full as safe.

7. Of the Corrolive Sublimate, and other Preparations of Mercury.

THE Corrofive Sublimate, which we have from Holland and Venice, is made of common Mercury, or Quickfilver reviv'd from Cinnabar, of Spirit of Nitre, of Vitriol calcin'd to a Whiteness, and of Sea Salt decrepitated, and by the Means of a subliming Vessel, reduc'd to a Lump that is white and shining.

That Sublimate, whether from Holland

or Venice, is to be chosen, which is whitelt and most shining, but the least weighty and compact that is possible; but that is to be rejected that comes from Smyrna, which is weighty, and full of Sparkles, because it is pretended that it is made with Arfenick, which I can't affirm, because I am not certain of it; and the best Way to prove it that I know, is to throw upon it a Drop of Oil of Tartar per Deliquium, or to rub it with a little Salt of Tartar; if it grows yellow it is an infallible Mark that it is made of Mercury, and has the Qualities requifite to it; on the contrary if it turns black it is to be rejected.

Corrofive Sublimate is made use of by several Perlons; as Surgeons, Goldsmiths, Farriers, and others; it is likewise us'd in Phyfick externally: but as it is one of the strongest Poisons we have, it ought not to be us'd without the greatest Precautions; and the Persons who retail it ought not to sell it but to fuch as have Occasion for it by their Profession, as the King's Ordinances require, by which it is expresly forbid to sell any Sorts of Poisons, but to the Master of the above mention'd Diseases, and they aa Family; and these same Retailers are or- tribute so many Qualities to it, that they

claring what he intends to do with it; and the Seller is to keep the same Drugg under his own Lock and Key, so that no Body but himfelf may have the Sale of it. I hope this Advice will not be taken amis, because it is defign'd for the publick Safety.

Of Sweet Sublimate, or Mercurius dulcis.

The sweet or dulcified Mercury, or Sublimate, call'd likewise Aquila alba, or the White Eagle, is Corrofive Sublimate, and crude Mercury, reduc'd into a white Lump, with little shining Streaks, by the Means of Fire and Glass Matrasses.

The Sweet Sublimate, or dulcified Mercury, ought to be white, shining, adorn'd with little hard Shoots, which being put to the Tongue is infipid, and reduc'd to Powder, is of a white Colour, a little upon the Yellow. Great Care must be taken that it has been dulcified three Times at least; for unless it has its necessary Qualities, that is, that it be very infipid or without Tafte, it may produce very ill Effects. They who bring it from Holland, should not so much look upon the beautiful Colour which the Dutch give it, as to take heed that it has no Tafte: For to my Knowledge there has come fome from Holland which might have had very ill Effects, if Care had not been taken; because it had been sublimed, or dulcified but once.

The Sweet Sublimate is a very excellent Remedy to cure the Secret Disease, and to kill Worms in Children: The ordinary Dose is from two Grains to thirty, taken in a Bolus, either of some Conserves, or purgative Medicines.

Of the Mercurial Panacæa.

The Mercurial Panacea is a sweet Sublimate made of Mercury, reviv'd from Cinnabar, and dulcified or fublimated eight Times. I shall not be long upon this Point, because the Directors of the Hospital of the Invalids have caus'd a long Tract concerning it to be printed; I shall only say, that this Medicine is very much demanded and valued, as well for its Novelty, as because they pretend it is a general Medicine for the Cure of Vol. II.

have given it the Name of Panacea, which is as much as to fay, the Universal Medicine: They commonly make up this Panaceae into little Pills, with the Mucilage of Gum Tragacanth, and when they are dry they differ little in Colour or Size from the Coriander Comfic.

of the White Precipitate.

The White Precipitate is a Quickfilver diffolv'd in the Spirit of Nitre, and precipitated by Salt into white Powder. This Powder, after having been well wash'd and dried, is what we call the true White Precipitate of Mercury, to diffinguish it from other Sorts of White Precipitate, of which one is made of Corrofive Sublimate, dissolv'd in a Water made of Sal Armoniack, and reduc'd into a white Powder, by casting the Oil of Tarsar per Deliquium upon the Diffolution, and afterwards washing and drying it as that above-mentioned. The Third is made likewife of the Corrofive Sublimate reduc'd to Powder and put into warm Water; and when the volatile Spirit of Sal Armoniack has been cast upon it, there will remain a white Powder, which after having been wath'd and dried, has the same Properties as the two others, which is to raise a Salivation, or mix'd with Oyntments or Pomatums to cure Tetters and cutaneous Diffempers.

As these Precipitates, and generally all Preparations of Mercury are violent Remedies, in which one may run some Hazard; so they ought not to be us'd but with great Precautions, and the Advice of understanding Persons. The White Precipitate of Mercury shows itself to be in a good Condition when it is white and weighty, and if it exhales, being put upon a burning Coal; on the contrary if it remains upon the Fire, or runs into Lead, it is an infallible Sign that it is nothing but white Lead ground, or some other white Powder, as that of Roan, or the like.

The Precipitate, made with Sublimate, should be extreamly white, and much lighter than that which is made of crude Mercury, which may seem strange, because every Thing made of Mercury is generally weighty, and this is the Reason why they that do not know it will not take it, although it is as beautiful and as good as that which is made of crude Mercury.

Of Red Precipitate.

The Red Precipitate is Mercury diffolv'd in Spirit of Nitre, and afterwards heated by the Fire 'till it has got a shining red Colour, fuch as that which comes from Holland: As for those red Precipitates which are made by the Artists in Paris and other Parts of France, they have as many different Colours as there are People that make 'em, and there are few of them can come up to that of Holland. 'Tis this which makes the greatest Part of the Red Precipitates which are fold to be fomerimes red, and fometimes of an orange or some other Colour, and never shining, unless it were that which comes from Holland; however I will not fay, but it may be as good though it be not as faleable. There are likewife two other Sorts of Red Precipitate, one of a Rose Colour, which is made when inftead of putting the Diffolution of Mercury in the Spirit of Nitre upon the Fire, they pour upon it hot Urine, and there will soon be a Precipitate of a Rose Colour, which being wash'd is good for the Worms or the Itch, and may serve for the same Uses as the Red Precipitate made by Fire. The third Red Precipitate is made of Sublimate dissolv'd in warm Water, upon which they pour the Oil of Tartar per Deliquium. Mr. Lemery says, that this Preparation of Sublimate is the true Red Precipitate, but that it does not act fo violently as that of Mercury. These two last Precipitates are very seldom us'd, because the first is most in Vogue, which ought to be faithfully prepar'd that it may be good; and Care must be taken that it be not mix'd with Lead Oar, which may eafily be known by rubbing it upon a Piece of Gold, for if it makes it white, it is a Sign that it is good, and that it is made of Mercury; but if it makes it black it is a Proof that it retains a Tincture of Lead, and that it is mix'd with it: You may likewise put it upon the Fire, and it is a good Sign if it exhales; however I must say, that That which comes from Holland is most preferable, as well because it is more beautiful, and consequently more saleable; as because we can sell it cheaper, especially in Time of Peace, than any that can be made in France.

of the Coralline Secret.

They call the Coralline Secret a Red Precipitate of Mercury, upon which they have burnt a good Spirit of Wine, repeating it fix Times; and this Coralline Secret is made use of internally, because the Spirit of Wine has sweetned it, and taken away whatever might be dangerous in it.

Of Yellow Precipitate.

The Yellow Precipitate, or Turbith Mineral. is Mercury reviv'd from Cinnabar dissolv'd in the Oil of Vitriol, and afterwards with lukewarm Water precipitated to a yellow Powder, which being wash'd and dried is us'd as a strong Purgative and Emerick. They likewise make a Yellow Precipitate, by dissolving powder'd Sublimate in warm Water, and pouring Lime-Water upon it, and the yellow Powder, which will be found at the Bottom, after being wash'd and dry'd, may pass for Yellow Precipitate, or Turbith Mineral. Mr. Lemery says, this Diffolution or yellow Water, is call'd Phagedenick Water, or Water for Ulcers, because it is proper to cleanse and heal Ulcers. The Surgeons make frequent Use of it in the Hospitals; but the common Phagedenick Water is Lime-Water, into which they have put a little Sublimate.

Of Green Precipitate.

The Green Precipitate is Mercury and Copper dissolv'd in Spirit of Nitre, and afterwards with distill'd Vinegar, thrown down into a Powder of a green Colour, which is made use of to purge upwards and downwards; and as some pretend, it is a Specifick to cure Venereal Distempers. They who prepare these Precipitates sind a yellow Powder that is very like the Turbith Mineral.

It is observable, that the more Copper is us'd in this Operation the more Acrity it has, and greater will be its Effect. This Precipitation is very little made use of, and was very little known, before the Sieur Matte de la Faveur, the King's Distiller at Montpellier, gave us a Description of it.

Of the Oil of Mercury.

The Oil, or to speak more properly, the Liquor of Mercury, is Quicksilver dissolved in the Oil of Virriol, and reduc'd into a white

Mass by the Means of Fire, which being put in a Cellar will dissolve and be reduc'd to Water. One may make another Oil of Mercury that is sweeter, by dissolving Quicksilver in the Spirit of Wine, and this may be us'd with the greater Sasety: You may likewise make it with Sweet Sublimate, and Sal Armoniack; or instead of Sal Armoniack you may use Salt of Saturn, or in the Room of Salt of Saturn of Sugar-Candy; and so of several other Sorts enumerated by several Authors.

8. Of Tin.

IN, which the Ancients call'd White Lead, is a white Metal which is not fo hard as Silver, and yet harder than Lead. Some have given Tin the Name of Jupiter. because they pretend it draws Influences from that false Divinity. They pretend likewise that it is form'd of two Matters, that is, Silver and Lead, because in the Tin Mines there is sometimes form'd both Lead and Silver, and sometimes Diamonds, which are fix'd to the Rock from whence they take their Tin: these are naturally polith'd, squar'd and pointed, and are of different Sizes, some as big as a Nut, but they are not so hard, nor will they cut like true Diamonds. They fay likewise that it is compos'd of Earth and an impure Sulphur, a Metallick Salt, and a Mercury a little finer and better digested than that of Lead, and that it is an Enemy to Gold and Silver, and when they are once mix'd it is difficult to part them.

The greatest Part of the Tin which we have in France comes to us from England in Pigs of different Weight, and especially from the County of Cornwall: The Britamick Islands abounded so much with that Metal, that the Ancients gave them the Name of Tin Islands,

There are three Sorts of Tin at Paris; the Hammer'd Tin, the Sounding Tin, and the Common Tin: The Hammer'd Tin, which is the most beautiful and the best Sort, is the English Tin as it comes from the Mine, and in Working they incorporate it with Tinglass, Copper, and a little Zink to purify it. Sounding Tin is English Tin mixt with the more Common Tin, and is also made with Tinglass and Copper, which is the Cause, as Mr. Lemery has very well observed, that these

brittle Parts, being united with the Tin, of Lead. They who work upon Tin, inftead make its Parts firm, and render the Metal more hard, folid, and compact, and so it becomes founding or ringing; for it is necesfary that all founding Matter should be compos'd of stiff Parts fo dispos'd, that being ftruck upon they should be agitated and tremble, by Hitting one against the other, which cannot be done by Tin alone, because it is fost and pliant. The Common Tin is English Tin and Lead, with Brass that is incor-

porated with it.

To know the Degrees of Goodness in Tin, they take a white Chalk that is found near Tonnerre in Burgundy, and of this Chalk they make a Sort of Mould into which they pour the Tin when melted; and by Means of this Chalk the Artists know what Standard it is of, by the little Lines or Furrows found in it; or else they cast Tin Bullets in Moulds, and that which is found lightest is esteem'd the best. Some Authors say, that Tin or white Lead is found upon the Surface of the Earth, amongst the Sands, and in Torrents dried up; and that it is found in Grains, which being wash'd is cast into Moulds, in the Shape we see them. Besides the different Uses we make of Tin, the Chymists performseveral Operations with it, as shall be shown hereaster.

Besides the English Tin, there is some that comes from Germany, but it is not so good, because it is only the Refuse of that which ferv'd to Tin their white Iron. We have

also some brought from Lorrain.

Of Tin in Leaves.

Tin in Leaves, call'd by the French, Appeau, is an hammer'd Tin, which the Dutch have painted on one Side by their Varnish, making it of what Colour they please; as yellow, red, black, sky-colour, &c. The Tin in Leaves ought to be uniform, well varnish'd, whole, and as evenly roul'd as it can possibly. The Dutch send it in Boxes which

Of Tin in Powder.

Matters which are compos'd of stiff and as shall be afterwards shown in the Chapter of grinding it to Powder, burn it, that is, calcine it, and reduce it to a grey Powder, which is that which we and the Pewterers fell under the Name of Putty of Tin, and use it to burnish their Hammers with, and others to polish their Steel Mirrors. They who would make this Putty extreamly white, calcine it 'till it becomes of a most beautiful white Colour. This Tin calcin'd to such a Whiteness, is what the Chymists call the Ceruse or Calx of Tin, and others the Spanish

White, or the Fovial Bezoar.

Some Authors affirm that Tin may be reduced into a Calx or Ceruse by the Help of Urine, and that the Urine acts upon Tin, as Vinegar upon Lead. Besides the Uses that the Chymists have for this calcin'd Tin, it is much us'd by the Potters, who make of it their beautiful Varnish, or white Enamel that is upon their Earthen Ware: But it is observable, that this Ceruse of Tin, before it can be us'd by the Potters, must be expos'd to the Weather for a Twelvemonth, that fo the Air may make a second Calcination; but Care must be taken that this white Tin have no Impurities amongst it, because they would make so many Spots upon the Works.

Of Salt of Tin.

The Salt of Tin is Tin calcin'd, upon which they have pour'd distill'd Vinegar; and by Means of Fire, and a cool Place, they draw thence a white Salt in little Chrystals, which they use for Tetters mixt with some Pomatum; it ought to be dry, white, light, and in little Shoots.

Of Flowers of Tin or of Jupiter.

They draw from Tin and Sal Armoniack, by the Help of a subliming Vessel, White Flowers of Tin. Instead of Sal Armoniack others use Salt Peter refin'd. They can hold commonly a Groffe, that is twelve Dozen. make of the Flowers of Tin, by Means of the volatile Spirit of Sal Armoniack, or Oil of Tartar per Deliquium, a Magistery of Tin, which being dulcified, wash'd in Water, and They reduce Tin into Powder two Ways, dried, is of a very fine White; so that being either with beaten Charcoal, or with Chalk, mixt with Pomatum, it is us'd for Paint: Uses as the Magistery.

Of the Diaphoretick of Tin.

The Diaphoretick Tin, which Mr. Lemery calls the Fovial Diaphoretick, or the Antihestick of Poterius, is made of fine English Tin, and the Regulus of Antimony, with Iron melted together, and afterwards, with Saltpeter and divers Lotions, they draw thence a Powder which is used for Diseases of the Liver, the Small Pox, and malignant Fevers, as the same Author tells

Of Natural Tin-glass.

Whatever Pains I have taken to discover if there were any true Natural Tin-glass, it was impossible for me to find it; and all those with whom I have convers'd, either by Word of Mouth, or Letter, they have all agreed there was no other Tin-glass than that we fell, which is an artificial One, as I shall show presently: However, I shall not be positive that it cannot be found but that it has not come to my Knowledge, and therefore I cannot contradict them who have written, that Tin-glass was a sulphureous Marcafite which is found in the Tin Mines, or that it is a Mineral Body, or half Metal, compos'd of the first Matter of Tin, which is yet imperfect; and that it is found in the Tin Mines, and has a Substance that is very hard, weighty, brittle, and of a gross Grain, smooth, white and shining. They say likewife that it is call'd Tin-glass, because when it is beat to Power, there appear in it several little Substances smooth as Glass. They call it also Marcasite, by Way of Excellence, because it surpasses all the others in Whiteness and Beauty; they say it contains an Arsenical Salt, which is dangerous to be taken inwardly.

Of the ordinary Tin-glass.

The Tin-glass, which some call Bismuth, is a Mixture of Tin, Tartar, and Salrpeter, from whence, by the Means of Fire, and a Crucible, they draw a Tin-Glass very white and pure, and much whiter than the Tin-glass that

The Flowers of Tin are often put to the same is brought from England: And this Difference, as I have been told, proceeds from this, that the English mix a little Copper with it to give it the reddish Cast which it

Tin-glass may not improperly be call'd the Ragulus of Tin, fince it is so in Effect: And it is a Thing so probable, nay, so sure, that the Tin-glass we sell is artificial, that the very Figure demonstrates it; for it is easie to fee that it is a Meral melted and cast in a Mortar, warm'd and greas'd, as they do to other Sorts of Regulus; and it is so true, that Tin-glass is artificial, that I have made it myfelf, and am ready to show it to those who won't believe me.

Tin-glass should be made Choice of, that is in fine Scales, white, and easie to break, and that is to be rejected which is in little Scales, and in a Word, comes near the Figure of Regulus of Antimony, as well as that, which being broke in two, has some greater and some lesser Scales, and is of a dark Co-

The Use of Tin-glass is for Pewterers, who at present make use of it instead of Regulus of Antimony, or else for the Chymists, who from thence draw Flowers, or a Magistery, or white Precipitate.

To draw the Flowers of Tin-glass they calcine it, and with Sal Armoniack, and a subliming Vessel, draw thence the Flowers, which when dissolv'd in Water, and precipitated with the Spirit of Sal Armoniack, or Oil of Tartar, may be us'd as the Magistery of Bismuth that I am going to speak of.

Of the Magistery of Common Bismuth.

The Magistery of Bismuth, which some improperly call the Spanish or Pearl White, is Tin-glass dissolv'd in Spirit of Nitre, and precipitated into a white Powder, with a lit--tle common Salt, and afterwards well wash'd and dry'd. There are Peruke-Makers that use this Magistery, though preposterously, for the making red Hair look of a light Colour; but this Trick will be eafily discover'd, because the Colour will not remain long, especially if the Peruke comes into the Rain.

The Magistery of Bismuth is sometimes us'd for the Face, by putting it into Pomatums, or diluted with Lilly or Bean-Flower

Water.

Water. It is good for the Icch, because, ac- cular Lumps, flat below, and round above, cording to Mr. Lemery, it destroys the Acids or Salts that nourish that Distemper: One must take Care not to be over-stockt with this Magistery, because its Colour will from white become yellowish as it grows old, and fo become unfit for Sale.

This Magistery should be bought of honest Persons, for there are a great many Cheats in it, and there is no Body can answer for it but he that made it, and therefore you must

not stand upon the Price.

Bismuth is a metallick Matter, Lemery. but it is hard, brittle, shining within, dispos'd into smooth Shoots, bright and shining as little Pieces of Glass. This Matter is drawn from the gross and impure Tin that is found in the Mines of England. The Workmen mix this Tin with equal Parts of Tartar and Saltpeter; this Mixture they throw by Degrees into Crucibles made red hot in a large Fire: Afterwards, when the Matter is melted, they pour it into Iron Mortars that are greas'd, and there let it stand to cool; then they separate the Regulus that is at the Bottom from the Scoria, and wash it well: It is the Tin-glass that one may properly call the Regulus of Tin. Some People say, that in the Tin, of which they make Bismuth, there is always a little Mixture of Arsenick. We can make Bismuth in France with ordinary Tin, Saltpeter and Tartar, as I have said, but it will be brighter than that of England, because the Tin we use is purer than that they use in England.

This Operation is the same as that of Regulus of Antimony, there is the same Detonation and Purification of the gross Sulphur contain'd in the Metal, the loofer Parts of the Sulphur, are elevated with the volatile Parts of the Saltpeter and the Oil of Tartar by the Detonation; afterwards the fix'd Salts of the Saltpeter and the Tartar, which Diseases of the Liver and the Womb, but I are become Alcalies, diffolve the other Part of the Sulphur which renders the Tin hard and brittle, whereas before it was pliant and malleable; for this Sulphur made the Ductility, and the exact Tyes between all the Parts of the Metal: It may likewise happen, that some small Portion of the Salts of Tartar and and fo contribute to the making of it brittle.

and of the same Figure with those of Regulus of Antimony, which was cast in a Mortar whilst it was in Fusion.

Tin-glass is to be made Choice of in fine large Pieces, shining, whose Shoots are large, white, and sparkling; the Pewterers mix it with their Tin, to render it more beautiful and founding.

It is resolutive and drying, being beat to Powder, and made up either into an Oynt-

ment, or a Plaister.

Tin is a Metal soft, malleable, sulphureous, white, shining, a little harder than Lead, very easie to be melted; the Ancients call'd it Plumbum Album White Lead; it is taken out of the Mines of England, and other Places, and brought to us in Pigs. At

Paris we have three Sorts of it.

The First is that Tin which is without Mixture as it comes from the Mine, and this is the true Tin. The Second is the common Tin, which is an Allay of the Natural Tin of Lead and Brass. The Third is the founding Tin or Pewter, which is a Mixture of Tin, Bismuth, and Copper, and a little Zink; they sometimes put in some Regulus of Antimony, and its fulphureous vomitive Salt is not to be fear'd upon this Occasion, because it is absorb'd and mortified by the great Quantity of other Metals with which it is incorporated.

Natural Tin is not founding, because it is too foft and pliant; for to render any Matter founding, it is requisite that it be compos'd of firm stiff Parts, which being struck may tremble and hit one against the other, which Quality is found in the Tin which is hardned and made folid by Bismuth, or by Antimony and Copper. This Tin, when fine and well compos'd, is very much like Silver.

Natural Tin is look'd upon as proper for have found but little of this Virtue in my Ex-

perience of it.

Zinck, which has been mention'd above, is a Sort of Marcasite, or a metallick Matter, resembling Bismuth, but less brittle, and in some Measure pliable to the Hammer; it grows in the Mines, and principally in those Saltpeter may penetrate this Regulus of Tin, of Goffelar in Saxony. That is best which is hard, difficult to break, white, with Shoots Bismuth is brought to us in round or orbi- that are large and shining. It is us'd to cleanse cleanse and whiten the Tin, as they make use of Lead to purify Gold and Silver. The Workmen mix in their Casting about six hundred Pounds of Tin, with one Pound of this Mineral.

Zinck is made use of in Solder; they likewife mix it with Copper to give it the Co-

lour of Gold.

Zinck is resolutive and drying, being apply'd outwardly.

9. Of Enamels.

[Namels are Vitrifications made of Pomat. Tin, Sand and Pot-Ashes of Alicant, to which they give diverse Colours, with different Metals, as shall be shown here-

The Enamels come from Venice and Holland, and are in little flat Cakes of different Sizes, and different Marks; some have the Name of Jesus, some have the Figure of a Sun, and the like, from the different Work-

men that made 'em.

The first is the White Enamel, which is the Basis of all the others, and is made of Tin calcin'd, or Putty, of Sand and Pot-Ashes, which having underwent a great Fire are reduc'd to a Paste, and being cool'd become hard as a Stone; it is this white Enamel which they use at present for varnishing their Earthen Ware, rather than Tin calcin'd and that no Dirt or Athes fall in or mix with expos'd to the Air and weather for a Year together, that Operation being too long. White Enamel is us'd by the Enamellers, Goldsmiths, and others: As for the Choice of it, there are none but they that use it that can know the Beauty and Goodness of it; the Whiteness is more or less according to the Goodness of the Tin it is made of.

The second Enamel is of a Gridelin approaching to a Slate Colour, which is white Ena-

mel colour'd with Azur.

The Third is of a Sky Colour, which is a white Enamel colour'd with Copper and Cyprus Vitriel.

The Fourth is of a Flesh Colour, which is white Enamel colour'd with Perigueur.

The Fifth is the Yellow which is the White

colour'd with Ruft of Iron.

The Sixth is Green, which is White colour'd with Pin Dust, or other Filings of Brass. Veffel; take it off the Fire and decant off

The Seventh is the Blue, which the Enamellers call the Faux-lapis, the falle Stone; which is the Sky-colour'd Enamel, colour'd with Lapis Lazuli. These Enamels will take different Colours, that is, many Colours are made of one, by putting in more or less of the Metals, or Druggs, before-mention'd.

Enamel is call'd Encaustum, from a Greek Word, fignifying Lemery, Burning, because Enamel is made

by a great Fire: But the Encaustum, or Enamel of the Antients, was quite another Thing from that which we now use, and is suppos'd to be wholly loft. It is a Work almost of the same Nature with making artificial Gems, and a Mixture of the same Colours with this Difference, that in Gems the Mass is transparent, according to the Nature of the Gem, but in this it is opacous and folid, it being Tin, which gives it such a Body and Solidity. The Ancients made their checquer'd or molaick Work of it; and Goldsmiths now use it in Colouring and Enamelling of Gold.

As for Enamelling, these Things must be generally observed; That the Pots in which the Enamel is made be glaz'd with white Glass, and able to endure the Fire: That the Mass and Colours for the Enamel be well mix'd and incorporated: That the Enamel, when well mixt, refin'd, and of a good Colour, be taken out of the Fire with a Pair of Goldsmiths Tongs: That Care be taken

The Way of making Enamel is this: Powder, grind, and fearce well the Colours, and mix them well first with one another, and then with the Matter for the Enamel, then fet them in Pots in the Furnace; when they are all melted and incorporated, cast them into Water, and when dry'd fet them into the Furnace again to melt, which they will foon do, and then make Proof; and if the Colour be too high add more of the Matter for Enamel; if too light, add more of the Colour 'till it is exact, then take it our of the Furnace.

The common Matter for all Enamels 18 thus made: Take fine Lead, thirty Pounds; fine Tin, thirty three Pounds; calcine them together in a Furnace and searce them; built this Calx a little in fair Water in an Earthen finer Part of the Calx ; put fresh Water to the Remainder, and boil and decant it as be- them into what Shapes he pleases, with very fore; repeat this as often as the Water carries off any Calx; re-calcine the gross remaining Calx, and then draw off again the more subtile Parts as before: Then evaporate these Waters which carried off the Calx at a gentle Fire, that the Calx may not be wasted, which will remain at the Bottom much finer than ordinary. Take of this fine Calx, Chrystal Frit made of Tarso, which is a hard and most white Marble, ground and fearled fine, of each fix Pounds four Ounces; of pure white Salt of Tartar, one Ounce; fearce and mix them well: Put this Mixture into a new Earthen Pot, giving it a Fire for ten Hours, then powder it and keep it in a clean dry Place; of this Mixture all Enamels whatsoever are made.

Altho' these Enamels are not made use of in Medicine, yet they have their Virtues, according to the Qualities of the feveral Druggs they are compos'd of; but they must be very well ground upon a Marble, if you would have them produce any Effect.

The White, the Blue, and the Yellow Enamel, are purely Deficcatives, but the others are Deterfives and Deficcatives.

10. Of Copper.

Pomet. Copper is a Metal found in several Parts of Europe, but principally in Sweden and Denmark, from whence we have almost all that we sell. Copper is taken out of the Mine in Sand, and in a Stone, almost like that of Iron; and after it is wash'd and purified from the Earth mixt with it, it is cast if any one be hurt with it, is by warm Water into Moulds of different Figures: To render it true red Copper, they melt it a second Time, and when it is well refin'd they cast it into Moulds of Sand, where it falls into Cakes or Plates that are not smooth, as we fee them. When they would make this Copper malleable they melt it a third Time, and afterwards form it into Cakes of three Inches thick, and about fifteen Inches Diameter. Of these Cakes put whole or in Quarters into the Fire, they make Plates, and of these Plates they make Cauldrons by the Means of Hammers that work by a Water-Mill, and the Plates are form'd into the Vessels by one Sulphur, a red Salt, and a Citrine Mercury.

the Water, which will carry off with it the that turns these Plates, with his Legs cover'd with Sheeps Skins, whereby he reduces little Use of his Hands.

Copper is a Metal very hard and dry before it is melted; and when it has been often melted it becomes ductile, and almost as malleable as Gold or Silver. Some call Copper, Venus, because that Planet is suppos'd to shed its Influences upon this Metal. From Copper the Chymists draw several Things very proper for divers Uses, as shall be shewn hereafter.

Æs, five Cuprum, five Venus, that is, Copper, is a beautiful Metal, Lemery.

shining of a reddish Colour, easie to rust, abounding in Vitriol. It is found in several Places of Europe, but principally in Sweden and Denmark; it is taken from the Mine in Lumps, which are superficially wash'd to cleanse it from the Earth that is mix'd with it, and afterwards melted with vehement Fires. 'Tis to be observ'd, this Metal is very difficult to be melted: They purify it from its Scoria and cast it into Moulds. When the same Copper has been twice or thrice melted it becomes more pure and ductile, and you have a red Copper more beautiful than the common.

Copper is a Metal of good Use in Physick, and is said to strengthen the generative Parts in Men and Women, but us'd Crude in the Stomach in Filings, or the like, it is little better than Poison, being hot to the last Degree, and of a caustick Nature, causing Pain in the Stomach and Belly, Vomiting, Fluxes, Ulcers, and Difficulty of Breathing, and if it be calcin'd it is yet worse. The Cure, mix'd with Oil, Oil alone and Butter, Hogs Lard melted and drank; and if it be got into the Guts, by Clysters of the like Kind, Salt and Oil of Tartar and other Alcalies; Juice of Mints, and fuch other Remedies as are us'd against Arsenick.

Thin Plates of Copper infus'd all Night in Lime-Water only, or in Lime-Water mix'd with Volatile Salt, or Spirit of Sal Armoniack, make an admirable Collyrium for the Eyes to wash with against Mists, Clouds, Films, Pearls, Suffusions, &c.

Copper is made or generated of a purple

11. Of Yellow Copper or Brass.

TEllow Copper is old Copper melted and made yellow by Means of the true Calaminaris Stone; the greatest Part of the Yellow Copper is made in German and Flanders. They beat this Copper and reduce it to the Thinnels of Paper, and this is what we call Tinsel. They bear this Tinsel over again, and make it extreamly thin, and afterwards put it into little Books of Paper and call it German Gold. They grind this German Gold to Powder to make Brass for the Painters, which has more or less Colour, according to the several Times that it has pass'd the Fire; they grind this Brass over and over again, 'till it becomes an impalpable Powder, which they fell under the Name of German Gold in Powder: Others put this Powder Gold into colour Figures made in Plaister, and by them Muscle Shells, and call it Shell Gold. That who paint in Miniature. Shell Gold is most esteem'd that comes from Ausburg in Germany, and from thence has the Name of Augusta. As to the Choice of the German Gold, either in the Leaf, the Powder, or the Shell, that which is finest of Tin that is mixt with the Copper; the and highest in Colour is esteem'd the best. gially such as paint in Miniature. The Painters Brass is likewise us'd by them to make their Figures of Plaister, have a Brass several other Works; the best is that which or Copper Colour, and for other Uses.

Besides the different Preparations that are made of this Yellow Copper, the Venetians, as I am affur'd, make of it that which the French call Purpurine, which heretofore was made use of upon Coaches. By Means of this Yellow Copper, and the Help of Fire, they make that Sort of Vitrification which the Enamellers call Avanturine; and they pretend the Name was given it because this Operation was found without being thought of, and was made by some Dust of Yellow Copper which fell into a Furnace where Glass was melting. Avanturine is all embellish'd with Streaks of Gold. There is an Avanturine that is found naturally in several Places Authors have written. of France.

Lemery, Leton, is a Mixture of Copper and more unknown, which proceeds from the

on Purpose: The Discovery was made by the Alchymists, who endeavouring to turn Copper into Gold, found how to give it a yellow Colour; the greatest Part comes from Flanders and Germany. The Calaminaris Stone embarresses and extends the acrid Salts of the Meral to that Degree, that Brass does not make the same Impression on Liquors as the red Copper. Besides, as the Calaminaris Stone costs but little, so the Yellow Copper is cheaper than the Natural.

That which we call Tinsel is Yellow Copper beat to a Leaf as thin as Paper, and is us'd by the Lace-Men.

German Gold is Tinsel beat very thin, and kept in little Paper Books for the Use of Painters.

The Painters Brass is the German Gold ground to Powder, which is put into little Shells, and call'd Shell Gold: It is us'd to

The common Brass, which the Workmen call Metal, is an Allay of Copper with Leton, or with Tin; they make divers Sorts, which only differ according to the Quantity Mixture is from twelve Pounds to five and The German Gold is us'd by Painters, espe- twenty Pounds, to the hundred Weight of Copper.

They use Brass for Clocks, Mortars, and gives the clearest Sound when you strike it.

12. Of Pompholyx.

HE Pompholyx, call'd White Calamine, Nil, Nibil, Nibili Pomet. Album, or Flowers of Brass, and improperly Ashes of Brass, is that which flicks to the Cover of the Crucible, and the Pincers of the Founders when they melt Tellow Copper; and it is certain that nothing but Tellow Copper gives the true Calamine and not the cast Copper, nor the Meral, nor the brittle Brass, as the greatest Part of the

Although this Pompholyx be easie to be Aurichalcum, Yellow Copper, or come at, yet there are not many Druggs Calaminaris Stone melted together Negligence or Ignorance of the Apothecaby a very vehement Fire in Furnaces made ries, because they take Tutty and the Pom-Vol. II.

pholyx to be the same Thing, and therefore is of an Iron Colour without, and of a reddish they use the Tutty instead of it.

The best Calamine comes from Holland, not that it is in Reality better in Substance than any other, but better collected and preferv'd. That Pompholyx ought to be chosen which is very white, light, friable, clean, it matters not whether French or Dutch fo it be very white.

They who cast Bells may gather a little of it, but because it is not very good it is not

worth While to look after it.

Calamine, said, he never sold any but to fome particular Perfons who came for a Dram Weight to take in Fevers, and affur'd me that it was a certain Remedy, and cured all Sorts of Fevers, which is a Thing I have never tried; but I should advise any Person not to use it but with great Precautions, because it is a very violent Remedy.

The Pompholyx, call'd in Latin. Nil, Nibili album, Capnites, Bulla cadmica, Calamites is a Flower of Brass, white and light, which is found flicking to the Cover of the Crucible in which they melt Copper with the Lapis Calaminaris to make yellow Copper or Letton; it is likewise sticking upon the Founders Tongs: But either through Negligence in Collecting this Drugg, or because the Workmen let it fall in the Fire when they uncover the Crucibles, we rarely find it amongst the Druggifts, and are therefore oblig'd to substitute Tutty in the Room of it.

The Pompholyx should be light, very white and crumbling; it is deterfive, deficcative, proper for Wounds; it is not much us'd, but externally for Oyntments. Some give from half a Scruple to two Scruples in Intermitting Fevers; it excites Vomiting very vio-

lently.

12' Of the Æs Uflum.

THE Æs ustum, or burnt Cop-Pomet. per, is made of red Copper cut into little Plates, and put into a Crucible with Sulphur, and a little common Salt, Stratum Super Stratum, and put into a great Charcoal Fire; and when the Sulphur is burnt away, and the Copper taken out of it, and it is a Commodity very difficult to make.

one within, being shining and very brittle.

The As ustum, if it be in a good Condition, should be moderately thick, and of the Colour before-mentioned; and being rub'd one upon another should make a Red like that of Cinnabar, which the Æs uftum or burnt Copper cannot do, unless some Salt be put to it, which is the Secret of the Hollanders, whereby they make it better than they do in France.

The As ustum is of some small Use in The Founder that I have seen who made Physick, because it is detersive; but they who make use of it make it red hot in the Fire nine Times, and quench it as often in Linseed Oil, and reducing it to Powder, use it for eating of dead Flesh, and they call this Powder of the Æs ustum so prepar'd, Cro-

cus, or Saffron of Copper.

14. Of Verdigrise.

HE natural Verdigrise is a greenish Marcasite like the Dross of Iron, and is found in Copper Mines, and is of no Use that I know of.

The Verdet, or Verdigrife, or Rust of Copper, is made of Plates of red Copper, and the Skins of Grapes after Pressing soak'd in good Wine, and put together in a large Earthen Pot, Stratum Super Stratum, that is to fay, they put an Handful of those Skins at the Bottom of the Pot, and then a Layer of Copper Plates, and so on 'till the Pot be full: then they put it in a Cellar, and after fome Days Time they take out these Copper Plates, which are cover'd with Ruft, by the Latins call'd Ærugo; and this Rust being scrap'd off, the Plates are put in again after the same Manner as before, and this must be repeated 'rill the Copper is confum'd, or render'd fo thin, that it may be mix'd with the Verdigrife, as it often happens: The most Part of the Authors who have treated of Verdigrise, tell us, that it is made with Vinegar, which is not true, for the best Wine is not too good for it; and this is so true, that there is scarce any but Languedoc Wine that will make good Verdigrife; it is in and about Montpellier that the greatest Part of the Verdigrife us'd in France and other Countries is made.

and to hit right, altho' it seems as if nothing colour Paper green, make use of Verdigrise were more easie; for if never so little happens to be amiss it grows greafy and black, and good for nothing, and will never come to a true Confistency. Had not the Receit been stolen from me, I would have told you how they do it at Montpellier, which I hope to recover and present the Reader with in the Second Edition.

There are some Authors who say, that one may make Verdigrise by putting Plates of Copper in a Crucible, with Salt, Sulphur, and Tartar, which being calcin'd and cool'd, the Plates are converted into a very good Verdigrise; but these Operations, supposing them to be true, are at present of no Use, because all the Verdigrise we sell is made in the fore-mentioned Manner.

We have two Sorts of Verdigrise from Montpellier, the one in Powder, the other in Cake: If it is good it must be dry, of a beautiful deep Green, and with the fewest white Spots that is possible. Verdigrise is a Merchandise that loses most of any Grocery Ware, and this makes them who deal in it mix it with feveral Druggs, that there is no Necessity of naming, and render it so moist that the Merchant loses much by the Wast of ir, besides the Skin which covers it, for which they pay as much as if it were Verdigrife: Therefore they who use it should confider its Goodness, and not stand upon the Price; for I can affirm, that there is no Cake of Verdigrife, such as they send from Montpellier, that weighs twenty-five Pounds, but after it is dry has loft a third Part, fo that the Verdigrise that cost twenty Pence when foft, will be worth near eight and twenty Pence when hardned.

Verdigrise is a Drugg the most demanded of any we have, and the Quantity of it that is us'd is almost incredible, not only in Phyfick, but by Dyers, Skinners, Hatters, Farthat Verdigrise alone, ground with Oil, canfor Painting to add white Lead to it, for otherwise instead of being green it would be one of them is Eating of dead Flesh; the Apothecaries use it in some Oyntments and Plaisters, as the Azyptiac, the Apostolorum, Take the White of an Egg beaten well with

and white Tartar to give it that Colour.

The Apothecaries and others, who have Occasion for Verdigrise in the afore-mentioned Compositions, and others, instead of the Powder, may dissolve it in Vinegar, and strain through a fine Sieve, and so avoid, in Reducing it to Powder, the Effects of the ill Quality of the flying Duft of Verdigrise.

Verdigrise, in Latin, Ærugo, or Viride Meris, is a Rust of Copper penetrated and rarified by the acid tartarous Salt of Wine: To make it, they stratify Plates of Copper with the Grape Skins, when the Must is taken from them, and leave them in that Maceration 'till they are in Part converted into a bluish green Dust, which they separate with Knives, and continue the Operation as before, 'till the Whole be turn'd into Verdigrife : This is commonly the Work of the Women in Languedoc, Provence, and Italy, where the Refuse of the Grapes have the greater Force to penetrate the Copper, and work upon it with its Salt.

It deterges powerfully, it confumes proud Flesh, it attenuates and resolves, and is us'd only in external Medicines; it is sharp and digesting, and cicatrizes Ulcers, being mixt with Oil and Wax, and applied; it likewise cleanses them from their Filth and Putrifaction, although they were the most stubborn, and had refifted all other Remedies.

It is of good Use in the Gout, being disfolv'd in fair Water, and used warm to the

It cures Diseases of the Eyes, and effectually takes off Pearls and Films. But before you use it for the Eyes, or for Wounds or Ulcers, you must purify it after this Manner: Powder it, and put upon it Spirit of Vinegar fix or seven Times its Weight, digest 'till the Vinegar is tinged very green, which decant and cast away the Fæces, then riers and Painters; but that is remarkable, evaporate the Vinegar in a Brass Vessel, and so you will have a glorious Verdigrife at Botnot be used; so that it is absolutely necessary tom, of which one Ounce is worth ten Ounces of the former.

Take of this fine Verdigrise, a Drain; black. As for the Properties of Verdigrife, Spirit of Sal Armoniac, half an Ounce; Alcool of Wine camphorated, two Ounces; mix them for a Collyrium to wash the Eyes. the Divine Plaister, and others. They who Spring Water, four Ounces, and add to it

Saccharum Saturni, ten Grains; white Vitriol, fix Grains; and fo many Drops of the Collyrium as may make it of an Azure Colour, with this wash the Eyes two, three, or four Times a-Day.

This fine prepar'd Verdigrise being made into an Oyntment with Honey, Juices of Wound Herbs, Vinegar, and absterfive Sulphur of Vitriol is applicable to weeping Wounds, Ulcers in the Joynts, &c.

15. Of Verdigrife Chrystalliz'd.

Pomet. THE Chrystalliz'd Verdigrise, or Chrystals of Verdigrise; or as it is call'd by Merchants and Painters, Calcin'd or Distill'd Verdigrise, is Verdigrise dissolv'd in distill'd Vinegar, and afterwards filtred, evaporated, and chrystalliz'd in a Cellar: These Chrystals are of some small Use in Physick to consume dead Flesh: They are likewise us'd by Painters to make a green Colour, especially in Miniature.

All the Chrystals of Verdigrise that we sell in Paris come from Holland or Lions, and are not unlike Sugar Candy, except in Colour, especially to that which is on Sticks, know no more of it, I shall only say, that such and if good these Chrystals must be beautiful, clean, and transparent, very dry, and as free from Sticks as possible. Here it may be observ'd, that the Verdet which the Apothecaries make is reduc'd to Chrystals by the Means of a Cellar, whereas that which comes to us is made after the Manner of Sugar Candy, as I have been inform'd.

cannot tell what has induc'd the Merchants to call these Chrystals Distill'd or Calcin'd Verdigrise, seeing it is neither distill'd nor calcin'd, but made after the fore-mention'd Manner.

grise by dissolving Copper granulated in the Spirit of Nitre, and afterwards evaporating to a Scum or Pellicle, and fetting it in a Cellar to christallize.

If you would reduce these Chrystals to a Liquor after having dried them, you must carry them back to the Cellar to resolve them into Water, and this Liquor is call'd by the Apothecaries or Chymists, the Liquor of Copper or Venus, and the Chrystals the Vitriol of Venus or Copper.

16. Of the Mountain or Sea Verdigrise.

HE Mountain or Hungarian Verdigrise is a Sort of greenish Pomet. Powder in Grains, like Sand, which

is found in the Mountains of Kernausen in Hungary, and comes from Presbourg to Poland: It is found likewife in the Mountains of Moravia; and fome will have it, that what the Ancients call Flowers of Brass was made by throwing Water, or rather Wine, upon Rose Copper, whilft red, that is to say, as it comes out of the Furnace; and that this Flower, or Mountain Verdigrife, is gather'd and found sticking to other Plates of cold Copper, which they place over them, in small Grains like Sand, and that this is made by Vapours which arise when they throw Water or Wine upon the hot Copper; and that it is that which makes what we call Rose Copper to be so unsmooth, and to be full of little Figures. Others have affur'd me, that this same Green was Plates of Copper disfolv'd in Wine, which was made almost after the same Manner as Verdigrise; but as I is to be made Choice of as is dry, of a high Colour, well granulated, that is to fay, like Sand, which is the Mark of Natural Mountain Verdigrise, and makes the Difference between that and the Artificial, which some make by Pulverizing Verdigrise, and putting a little white Lead amongst it.

The Verdigrise of the Mountain is of no other Use but in Painting, principally for making a Grass Green, and therefore it is that most of the green Painting we see in Gardens is done therewith.

As it is a dear Commodity, and comes They likewise make Chrystals of Verdi- from several Parts, so there are different Sorts of it, and different Prices, therefore they who use it should regard the Qualities of it rather than the Cheapnels.

17. Of Mix'd and Bell-Metal.

BEIL-Metal, according to Monsieur Fure-tiere is an Allay of Metals, the Principal of which is Copper melted with some Part of Tin, or of Brass; some for Cheapness nels put in Lead, because one cannot melt Copper in a Reverberating Furnace, but that it shall remain full of Holes like a Spunge. There is likewise another Compound of Copper which is call'd Mix'd Metal, which in Effect is nothing else but Bell-Metal, and they give it this Name from the greater or lesser Quantity of Tin that is mix'd in it, which is from twelve to five and twenty in the Hundred: The Dreggs or Scoria of mix'd Metal is call'd Diphryges, and is us'd in Physick. The Flower thereof is made by throwing fair Water upon melted Brass; when it runs they place Iron Plates over the Fume of it, and that which congeals settles into little Grains like Millet Seed, which are bright, and of a reddish Colour, and this, is call'd Flowers of Brass. The Scales of Brass is what falls from the Brass when they hammer it and work it.

Diphryges is of a mix'd Faculty, meanly aftringent, sharp, and of excellent Use against spreading Ulcers; it cleanses, dries, and consumes Excrescences, and being made into a Collyrium is good for dropping Eyes, and such like Diseases of the same. The best is that which has the Taste of Brass, or the Rust of it, being aftringent, and very

much drying the Tongue.

As for the mix'd, or Bell-Metal itself, we use it for making Figures, Bells, Mortars, and other Utensils: The best Metal is that which is whitest and sounds like Silver. I should not have been so long upon this Head, if it had not been for the Sake of Tutty, which is describ'd under the following Head.

18. Of Tutty.

Tuty, or the Spodium of the Greeks, is a metallick Species in Scales or Drops of different Size and Thickness, solid within, and rough without, with a Sort of Excrescences, like Pins Heads, for which Reason the Ancients call'd it Spodium, or Tutty in the Cluster. The Tutty which we sell in France comes from Germany and other Places, where they make mix'd or Bell-Metal. It is wrong to think what most Authors, both New and Old, have afferted, that Tutty is got from the yellow Copper or Brass, and that it is made at the same Time as the Pomerone.

pholyx; for this is not true, feeing the Tuter is found flicking to Rolls of Earth, which are hung up and plac'd on Purpole on the Top of the Furnaces where the Founders cast their mix'd and Bell-Metal to retain the Fume or Vapour, like the Smoke in Chimnies, and by the Means of these Rolls the Vapour is retain'd and reduc'd into a Shell of the same Figure as these Rollers, which we have seen, and the Thing is so certain, that if one will but look amongst the Tutty, you will find flicking to it the Earth, and therefore it is not made by Sticking to the Bottom or Sides of the Furnace; and that which makes this more than a Supposition is, because all the Tutty we have is always in Form of a Gutter, and half round.

Tutty ought to be in bright Scales, thick, granulated, of a fine Mouse Colour without, and a pale Yellow within, hard to break. and as little mix'd with Foulness as possibly can be. Tutty has no other Use, that I know of, but in Medicine, and that not 'till 'tis well beaten : Others burn it, and after wash it and make it up into Troches which they use for Diseases of the Eyes, Mixing it with fresh Butter, or Diluting it with Rose or Plantin Water. Tutty, well prepar'd and incorporated with fresh Butter, is an excellent and fure Remedy for the Piles: That is most esteem'd which comes from Orleans, either because it is better prepard, or because it has all along carried the Vogue

with it.

Tutty is brought from Sweden, Cyprus, Greece, Turkey and Egypt, Lemery. but the Cyprian is the best: It was heretofore brought from Alexandria, and therefore Authors, in their Descriptions, call it Tutty of Alexandria. The Difference between the Pompholyx and the Tutty, or the Grey Spodium, is this; the Pompholyx is more white and light, like volatile Meal; the latter is nearer the Colour of Brass, heavier, thicker, and fattish, which with Vinegar yields a Smell like Brass. Tutty, by some, is accounted the better Medicine, and more powerful for the Uses intended. Cadmia calcin'd by a violent Fire and brought to Ashes, is fold for Tutty, but this is a Chear, and fometimes for Want of it, burnt Ivory is sold in the Shops for it.

It is deterfive, dificcative, proper for Diseases of the Eyes, for drying and cicatrising of Wounds, and for the Piles; it is only us'd externally after being ground to a very fine Powder.

19. Of Chalcitis.

Pomet. CHalcitis, or Colcothar, is a natural Vitriol made red by subterraneous Fires in the Entrails of the Earth, which is the Reason why Chalcite is a Stone of a reddish Colour. I shall not endeavour to write what the Ancients have faid touching the different Changes that happen to the Chalcitis, nor to explain what is Misy, what Melanteria, and what Sory, for I cannot tell what these three last are, or where they may be found. Matthiolus upon Dioscorides, Page 729, says, that Misy is hard and like Gold, and glifters like a Star, and is found in Cyprus. The Melanteria is found of two Sorts; one is found growing like Salt at the Entrance of Copper Mines, the other is found congeal'd at the Top of the Mines: He says that the best Melanteria is that which is smooth, clean, firm, and of the Colour of Sulphur, and that turns black as foon as a Drop of Water is put upon it. As for Sory, he lays it is black, and eafily diffolv'd in Water. full of Holes, and aftringent to the Tafte, of a very ill Smell, and that a great deal is very aftringent; it stops Bleeding at the found in Ægypt, Libya, Spain, and Cyprus. Pliny, on the other Hand, fays, That Chalcitis, Misy, Melanteria, and Sory, are the same Thing, that the one changes to the other in Process of Time, that is to say, Chalcitis have been careful to observe it. It is true, there is a Chalcivis that has different Colours in the same Piece, but as I have found no Alteration in it by keeping all the Time I had it, I am apt to believe it was fo naturally.

diffolve easily, and being broke are of a neous Diseases. Copper Colour, but something more shining.

The Chalcitis, or Natural Colcothar, is brought from different Places, as from Smeden and Germany; it is a Drugg very little us'd in Medicine, because very rare; and if it were not an Ingredient in Venice-Treacle there would be scarce any Demand for it. The Dearnels and Scarcity of this Stone have given Occasion to many Counterfeits. and to feek for Succedaneums, as the Colcothar or Vitriol made red, the white Vitriol calcin'd, the Lapis Calaminaris, because of its Colour, and several other Things, so that Persons who want the true Chalcitis must apply to honest People, and not stick at a

Chalcite is a Vitriol naturally calcin'd by the Subterranean Fires, Lemery. and render'd into Pieces of Stone, pretty big, red, and sometimes streak'd within with yellow Veins something sparkling; it is found in Copper Mines, and within Side participates of that Metal; it is melted by Fire; it is brought sometimes from Germany and Sweden, but is generally very scarce in France.

That is most preferable that is in pretty large Pieces, of a brownish Red without, which being broke, is of a Copper Colour, something shining, of the Taste of Vitriol,

The Chalcitis is hot, dry, deterfive, and Nose; it is us'd internally and externally; and in the Composition of Venice-Treacle; but not being eafily got they commonly substitute an artificial Colcothar, which is a green Vitriol calcin'd to a Redness in the Room of becomes Mify, Mify turns to Melanteria, and it: It is of thinner Parts than Sory, but thic-Melanteria to Sory, which I could never find, ker than Mify. In a Collyrium it cleanses, though I have had a Lump of it above eigh- dries, and heals the Eyes. The fame Collyteen Years, in which I could never fee any rium, if weakned with Rose Water, pre-Alteration, as to its Nature or Colour, tho' I vails against St. Anthony's Fire, and all Sorts of creeping Sores, whether of Skin or Flesh. With Juice of Leeks it is said to stop a Flux of Bloud at the Nostrils, as also in Wounds, and of the hemorrhoidal Veins; it is good against Vices in the Gums, and eating Ulcers of the Tonfils, the Powder of it be-Chalcitis is to be chosen in prettry large ing laid upon the Part affected: Burnt and Pieces, of a brownish Red, of the Taste of mixt with Honey, it helps callous and rough Vitriol, which being put into a little Water, Eybrows, Fistulas, Leproly, and other cuta-

fay, it is a Natural Mineral Excrement al- fore less piercing. most like Gold, which glisters when it is broken: It is commonly bred upon the Chalcitis, and is only the Recrement of that Mineral, being bred thereon, as Verdigrife is upon Brass: It is very aftringent, burning, and of much thinner Parts than Chalcitis, but is of the fame Virtue with it, as being bred from it, but in a different Degree. That which comes from Egypt is accounted the best, and is more corrosive than Chalcitis or Sory, being calcin'd and burn'd or wash'd, Sal Armoniack is diffolv'd, a Collyrium may be made by Infusing the Powder. That Water is likewise good to wash malignant Sores, and running Ulcers.

to Matthiolus, is a Mineral Vitriolick Matfound like a Salt upon the Entrance of Copper Mines, from whence they gather it. The grows black upon being melted with a little Water: He says the Melanteria is found in Cilicia, and feveral other Countries; he attributes a caustick Virtue to it. This Drugg is unknown to us, and many believe, with Pliny, that it is nothing else but the Chalcitis, which Mine: However it is, we substitute the Natural Chalcitis in the Stead of it.

Sory is a stony Mineral, vitriolick, gross, impure, porous, or naturally pierc'd with many Holes, fattish, black, of an ill Smell, and a stiptick Taste. It is found in the Mines of Cyprus, Spain, Libya and Egypt: And as Matthiolus says, it is found in the Dukedom of Brunswick. Many have thought it to has lain long in the Mine; but there is more

They who diftinguish Miss from Chalcisis but of thicker and grosser Parts, and there-

20. Of the Roman Vitriol.

Roman Vitriol, as well as all other Vitriols, or Sorts of Copperas, is Pomer. a Chrystallization drawn by the Help of Water from a Sort of Marcasite, found in Copper Mines, to which the Ancients have given the Name of Pyrites, or Fire-Stone. This Stone is found under our it is good against malignant Ulcers or Fisture Clay-Pits at Passy, within a League of Paris, las. With Lime Water, in which a little upon which feveral Operations have been perform'd; and as I have been affur'd, it was with this that a certain Abbot made his universal Medicine. The Pyrites, from whence they extract the Roman Vitriol, is The Melanteria of Dioscorides, according found in several Parts of Italy: To reduce this Marcaste to Vitriol, they expose it for ter, of which there are two Kinds. One is some Time to the Weather, that so the Air may penetrate into it, and that it may calcine and turn into a Chalk of a greenish Colour. Second is found at the Top of the same When the Pyrites is fit for Working, they Mine in a firm, smooth, clean Stone, of the throw it into Water, and afterwards by the Colour of Sulphur. Dioscorides prefers this Help of Fire and wooden Tubs, reduce it to latter Sort to the first, and chiefly when it Chrystals, such as we receive from Italy. In a Word, all the Vitriols, or Copperas's, are made as they make Allum in England, or Saltpeter with us. All the Difference that there is between the feveral Copperas's proceeds from the different Places where the Mineral is found; and as it participates more has taken several Shapes and Colours in the or less of the Copper or the Iron. They which have most of the Copper are those of Cyprus or Germany: They which have most Iron are the Roman Vitriol, and that from Pisa and England. When the first are rub'd upon the Edge of a Knife, wer with Spittle, they make it look red: On the contrary the Roman Vitriol, and the Copperas of Pifa and England, don't change the Colour upon the Edge of the Knife, and this has given some have been a Chalcitis grown old, and that People, that shall be nameless, an Opportunity of Counterfeiting Roman Vitriol by Eng-Probability that it was a Mixture of Vitriol lift Copperas, which they do, by washing and Bitumen calcin'd by subterranean Fires. that Copperas never so little, and exposing it There has been none of it found for many to the Air for some Days, 'till from a green, Ages, at least it has been neglected, and we it turns of a greyish Colour, which is easie substitute the Chalcitis, or natural red Vitriol to be found out, because the true Roman Viin the Room of it; it was drying, burning, triol is in thick long Pieces, of a Grass Green, and aftringent, not much differing from Mify, very difficult to melt, and being broke as

Word for Glass being Vitrum, some pretend that it takes its Name; others will have it, that the Name of Vitriol is mysterious, and that every Letter stands for a Word; so that it is as much as to fay, Visitando Interiora Terra, Rectificando Invenies Occultum Lapi-

dem Veram Medicinam.

The true Roman Vitriol is much fought for at present, both because of its Scarcity, as well as because 'cis proper for the making a white Powder, which they call the Sympathetick Powder, which is only Roman Vitriol expos'd to the Air and the great Heat, during the Dog-days for a confiderable Time; and when it becomes extreamly white by the Calcination which the Sun has given it, is made use of for Wounds and Stoppage of Bloud; some mix Gum Tragacanth with it. They bring us likewise from Italy another Vitriol, which comes near the Colour of the Roman, only it is greener, and in leffer Pieces, and is what we call Vitriol or Copperas of Pifa, and is made use of by the

The third Vitriol, which is of a Martial Nature, and as it is more common, is also cheaper than the English Copperas, is much us'd by Dyers, Hatters, and others, that have Occasion for a black Colour; and they pretend that That which makes the Copperas dye Black, is because it participates of the Iron; others will have it, because they who make it throw old Iron into the Liquor.

The necessary Qualities in right English Copperas is, that it be dry, of a clear transparent Green, with as few small and whitish

Pieces as possible.

Of the Cyprian or Hungarian Vitriol.

Notwithstanding all the Pains I have taken to discover what the Vitriol of Cyprus, which we fell, might be, I have not been able to learn it. The Ancients, and some Moderns, have pretended, that this Vitriol is a Chrystallization made of a blue Water which is Medicine, as being that from whence the found in subterraneous Places in Cyprus, from whence it has its Name: And a Person of tions, as shall be shown hereaster: It is like-Worth and Honesty has affirm'd to me, that wife us'd by the Dyers. This Copperas may the Vieriol of Cyprus was made of Rose Cop-per diffolv'd in the Spirit of Vitriol, and affity, instead of the Vitriol of Cyprus, but it terwards Chrystalliz'd. Another has told has not so much Efficacy.

transparent as Glass, from whence, the Latin me, that it was made of German Copperas; but not knowing which Part to take amongst these three, I shall only say, that two Sorts of Vitriol are brought from Cyprus, one in large Pieces which we call the Companys Vitriol, because the Merchants Trading to the Indies bring it to us; the other cut into Bits on purpose, with Points like Diamonds, to make it look more beautiful, and promote-

the Sale.

The Vitriol of Cyprus or Hungary is to be chose of a fine sky-colour'd Blue, especially when broken; for being a Commodity easily penetrated by the Air, it will come to be of a whitish grey on the Outside, which does not at all diminish its Goodness, but renders it not so saleable to the Eye; and a Sign that it is the Superficies only that is damag'd is this, that by putting it to the Tongue, upon the Approach of the least Moisture, it will come to its Colour. Some Persons have affur'd me, that so piercing a Spirit is drawn from the Vitriol of Cyprus, that it would break any Glass Vessel of whatfoever Thickness, and yet tho' so piercing, being mix'd with an equal Quantity of Water, was a Sovereign Remedy for Consolidating all green Wounds, and Stopping of Bloud, which is probable enough, because we have no Druggs more aftringent, or that stop Blood better than the Vitriol of Cyprus. This Vitriol is much us'd by several Artists. Some Persons carry it about them for Blotches in their Face: This, as well as the Roman, is us'd for the Sympathetick Powder.

Of German Copperas.

The German Copperas is a Vitriol of a bluish Green, clear and transparent, which is made and chrystalliz'd at Goffelar in Saxony, whence it is that the German Copperas is call'd Goffelar, or Saxon Vitriol. The largest Pieces, clearest, and most transparent, are to be chosen, and the driest that can be.

The German Copperas is of much Use in Chymists draw most of their Prepara-

Of White Copperas.

The white Vitriol which we fetch from Germany, is the Copperas of Gosselar, beforemention'd, calcin'd to that Whiteness, and afterwards put into Water and filtred, and reduc'd to Salt; and when it begins to coagulate, the Germans make Lumps of forty or fifty Pound Weight, of the Shape we see them in. It is therefore an Abuse put upon us by a modern Author, who would make us believe that the White Copperas is that which is found near Fountains, and is the most purified from any metallick Substance. This Copperas ought to be pretty hard, white, and of the nearest Resemblance to fine white Sugar that can be; Care must be taken to keep it from the Air, for when that gets to it, it becomes yellow and unsaleable.

This Copperas is of some Use in Physick, because some People put it into Rose or Plantain Water, with Orrice and Succotrine Aloes, to cure the Eyes: Painters use it when calcin'd to put in their Colours that they may dry; but Farriers have the most Oc-

casion for it.

By Help of the Spirit of Vitriol they draw Chrystals from this White Copperas, which are those we call Gilla Vitrioli, or Emetick Vitriol, because being taken from twelve the Philosophick Spirit of Vitriol, of which Grains to a Dram in Broth, or other Liquor, you must carefully beware. it gives an easy Vomit.

Of the Spirit and Oil of Vitriol.

They draw from the German or English Vitriol, calcin'd to a Whiteness, by Means of Fire and a Retort, a Flegm, a Spirit, and an Oil; but because the Operation is long and troublesome, I should not advise any one to concern themselves with it: Besides the Spirit and Oil of Vitriol, which we Apothecaries and Chymists make, are not so good, nor can be afforded so cheap as those brought from England and Holland: This must be taken Notice of, that what we call Oil of Vi-Water, for the Oil of Vitriol is not such, but use of as Gilla Vitrioli, only not to be taken éafily intermixes with watry Liquors.

Liquor which comes immediately after the Flegm, which if right ought to be as clear as Water, of a Tafte something sharp, and being put upon white Paper, and held to the Fire, becomes black. They use this Spirit of Vitriol very commonly in Physick for Cooling, and upon other Occasions. The Spirit of Vitriol, well cleans'd of its Flegm, is what we improperly call Oil of Vitriol, and ought to be of a dark Colour, of fo piercing and caustick a Taste, that it is imposfible to endure it upon the Tongue. They are in the wrong who think that acid Spirits need not be stopt, because they pretend that they don't evaporate, which is true; but this Spirit being throughly devested of its Flegm, if you leave it in a Bottle unstop'd, the Air gets into it, increases its Bulk and Weight, and at last it becomes as insipid as Water.

The Oil of Vitriol is very corrolive, and therefore made use of to dissolve Metals: It is taken inwardly for the same Distempers as the Spirit, but must be us'd in lesser Quantities, because it has greater Strength in it. Spirit of Vitriol should be bought of such Persons as one can trust, because there are some who make Spirit of Vitriol, by Mixing Aqua fortis with Water, which they are able to afford at a cheaper Rate: and this Spirit of Vitriol, made with Aqua fortis, is call'd,

As to the Water and Flegm of Vitriol, that I mention'd before, it is of no Use, because it is infipid, yet some People wash their Eyes with it.

Monsieur Lemery says, that you must use English Vitriol, or Copperas, for the fore-mention'd Operations, because it is not of fuch Acrimony as the German: However all they who work with Vitriol make use of the German; but I leave the Decision of this Point to them that have more Experience in it than I have. That which remains in the Retort, after Distillation, is a reddish Earth which the Chymists call, the Caput Mortuum of Vitriol, Artificial Colcothar, or Rubified eriol, is a Spirit well rectified from its Phlegm; Vitriol. One may draw a Salt out of it by but it must not be expected in this as in others, the Means of Water and Fire, which is that the Oil shold be fat and swim upon the what they call Salt of Vieriol, and is made in such large Doses. The Salt of Vitriol That which is call'd Spirit of Vitriol is the ought to be white, and faithfully prepared;

Salt of Vitriol.

The Colcothar has some little Use in Mediinstead of Chalcitis, both because it is cheaper, and also has the same Qualities. Some Apothewell to make it red, as to humour the Surgeons, who are pleas'd that the Publick don't know that it is nothing but Diapalma; and to disguise it the better, they call the Plaister by the Name of Diachalciteos.

They make with the Colcothar, Burnt Alum, Sugar Candy, Urine and Rose-Water, a very astringent Water, and proper for Stopping of Blood, as Monsieur Lemery has observ'd, to whom the Reader may have

Charas.

It is to be observ'd, that the Colcothar is improperly call'd Calcanthum, because the Word Calcanthum fignifies nothing else but Vitriol.

there are some Sorts taken about Paris.

This Fossil or Mineral consists of an acid phrasti. Salt, Earth, Iron and Copper. The diftin-Colour, which it communicates to an Infufion of Galls. That 'tis an acid Salt appears plainly, not only by its being chymically analiz'd, (for a great many cavil, that an acid Spirit may be produc'd by the Violence and Force of the Fire) but also from the bright red Colour that a Solution of Vitriol imparts cipitates or falls to the Bottom of the Cruciis made, and by placing Plates of Iron or Tertian Agues. Copper in a Crucible, with some common

for it is usual to sell the Gilla Vitrioli, or Brimstone interspers'd, a Vitriol is produc'd Green Vitriol calcin'd to a Whiteness for the by the Help of Fire: Wherefore it is very probable that the Vitriol of Mars or Iron, and the Vitriol of Venus or Copper, are bred cine, forasmuch as some People employ it in the Bowels of the Earth, from the acid Juices or Liquors, corroding the Copper.

White Vitriol, vulgarly call'd Eye-Copperas, caries put Colcothar into their Diapalma, as is a Mineral Vitriolick Salt found in the Earth, near unto Fountains, and the most of all depurated from a metallick Mixture; or it is made by Diffolving the Roman or dark green Vitriol in Water, and then boiling it till all the Water is evaporated, and the Vitriol turn'd into large white Lumps like Sugar, which being expos'd to the Air, turn outwardly of a reddish or yellowish Colour. It is the least acrid of any of the Vitriols.

It is to be chosen in large white Lumps, Recourse. There is another Stiptick Water pure and clean, resembling Loaf-Sugar, of of Monsieur Faveur describ'd by Monsieur a sweet Taste, aftringent, accompanied with an Acrimony; it contains Abundance of Flegm and acid Salt, a little Sulphur like common Sulphur, and some Earth.

The white natural Vitriol needs no Manner of Preparation, being of great Use and Vitriol is a Mineral Salt drawn Force in a Loofness and Bloody Flux, and Lemery. as Saltpeter by Lotion, by Filtra- frequently us'd for that Purpose in Camps rion, by Evaporation and Chrystal- and Hospitals. The other white Vitriol is lization, from a Sort of Marcastie, call'd thus purified: Take White Vitriol, what Pyrites or Fire-Stone, of which I shall speak in Quantity you please, dissolve it in Flegm of its Time ; it is found in the Mines in several Vitriol, or in Rain Water, then filtrate, eva-Paris of Europe, as in Italy and Germany; porate, and fet it to chrystallize; this is that which is call'd Gilla Vitrioli, and Gilla Theo-

It heats, deficcates, aftringes, or conftiguithing Mark of Vitriol confifts in the black pates, yet excites Vomiting; it powerfully extricates tough Flegm out of the Ventricle, by its emetick Force, yet may be given to Children: It kills Worms, and strengthens the Stomach and Brain, and is good against Convulsions and Epilepsies; it cleanses and ftrengthens the Womb, and is us'd in Injections against a Gonorrhea, and the Whites to blue Paper. The Earth of Vitriol pre- in Women, a Dram thereof being mix'd with a Pint of Spring Water, and so us'd ble, when the Solution of fix'd Nitre is with a Syringe. Inwardly, as a Vomit, it pour'd upon a Solution of Vitriol: As to Iron is an excellent Remedy against Fevers: Dose and Copper, it is not to be doubted that they from twelve Grains to a Dram in Broth, or are contain'd in Vitriol; for by pouring the other Liquor: It cleanses the Stomach from Spirit or Salt of Vitriol, upon the Filings of all Impurites, eases the Headach, ftops Iron, an excellent Vitriol of Mars or Iron Fluxes, and is good against Quotidian and

There are two Things observable, First, Additions of Copper, and is brought to us voids by Stool a black Matter, like Ink, because it often happens that some Part of the Gilla descending into the Guts meets with a Styptick Matter, almost of the same Nature as Galls, which causes that Blackness.

The Sympathetick Powder is White Vitriol open'd and prepar'd; it ought to be plac'd upon a Stone so as to receive the Beams of the Sun reflexively, from a large Burning Glass, by which it will be sooner done than by any Furnace whatfoever, and the calcin'd Powder is to be kept in a Glass close stopt for Use: It is us'd in the magnetick Cure of Wounds; dissolv'd in Water, and us'd outwardly, it dries, binds, and heats much, and has the Virtue of the Gilla.

The Aqua Styptica Composita, or the Compound Styptick Water, is made of this Vitriol. Take purified white Vitriol, Roch Alum, of each an Ounce; Saccharum Saturni, half an Ounce; Spring Water, two Quarts; mix and dissolve over a gentle Heat, digest close stopt, ten Days; decant the Clear, filtrate paration, and of few and fimple Ingredients. but of no mean Use. It is a good Injection (Universals being first premis'd) against the Whites in Women, and the Gonorrhea in Men, though of never so long standing, and possibly may do more in two, three, or four Days Time, being injected, than all other Medicines could do in as many Years: It stops Bleeding in any Part, heals Ulcers, and infallibly cures all Sorts of Tetters, Ringworms, Scabs, Scurf, Morphew, and inveterate Herpes in any Part of the Body, if daily wath'd therewith, two or three Times a Day, for half an Hour at a Time, and as hot as can be endured; injected as a Clyster, it kills the Worms call'd Ascarides.

There are several Sorts of Green Vitriol, as the German or Hungarian Vitriol, the English Vitriol, and the Roman Vitriol.

As for the Green or Hungarion Vitriol, the Native is found in Mines like Copper; the Factitious is made of the Marcasite, call'd

That in making this Gilla Vitrioli all the Li- from Danezick, out of Germany, Hungary, quor may be evaporated away without any &c. The best is the greenish, and of that, that Chrystallization, so the Gilla will remain at which participates more of Copper than of the Bottom in a white Powder. Next, That Iron, which rub'd on a Knife colours it red; after taking this Vomit the Sick sometimes that which is subceruleous, pale, aquose, and moistens the Hands, is not so good.

The Factitious is that which is made either of Water coming from vitriolick Springs evaporated and chrystalliz'd, or else made from vitriolick Marcasites, the Pyrites, or Fire Stone, (with Additions of Copper) which is found in Grounds abounding with metallick Seeds, and inclin'd naturally to the Generation of Sulphur; it is known by burning, for it yields a sulphureous Fume, not unlike Brimstone: This powder'd and expos'd to the Air, yields on its Superficies, a little white and sharp Salt melting in the Mouth, at first sweetish, then ending in a vitriolick Harshnels. From this Powder Vitriol is thus extracted; it is dissolv'd in Rain Water, by boiling in a flow Hear, then filtrated, evaporated, and chrystalliz'd, so you have an excellent greenish Vitriol.

Out of any of these three Kinds of greenish Vitriols all the great and fam'd Medicines are made; it goes sometimes by the Name of Dantzick Vitriol; it may be purified after the and keep it for Use. This is an easy Pre- same Manner as the White, and the Gilla of it has all the Virtues as the other, but is much stronger, and ought to be given with Caution and Discretion, and only to strong Perfons; and if given to the Sick, they ought to be provok'd to Vomit, least by Reason of its Quality it should ulcerate the Tunicles of the

Stomach and Bowels.

The Sympathetick Powder is much better to be made with this than with white Vitriol, as being much more powerful to all the same Intentions of curing Wounds, and the like: And as to the Compound Styptick Water of white Vitriol, the same may be done with the Hungarian, only the Proportion of it must be something less. It is superior in Virtue, and may do Wonders, if in a wife Man's Hand, but for vulgar Use the former is better, because it may be trusted with Persons that are less skilful, and there will be no Danger of their doing Mischief with it.

The Styptick Water of Monfieur Faveur Pyrites, or the Fire-Stone, with or without is made after this Manner: Take of Vi-

Water, strain it through a coarse Cloth, boil dition of old Iron. Of this Copperas, with it in a Copper Vessel for a Quarter of an Hour; remove it from the Fire, and put to it immediately half a Pound of Spirit of yet some think that the Vitriol of Copper is Vinegar to cause the earthy Parts to settle; let it stand twelve or fourteen Hours that the Refiners that Aqua foreis made with Cop-Terra may precipitate, then decant the clear peras, or Vitriol of Iron, will carry its Foul-Liquor. This Terra, or precipitate wash ness through all their mediate Solutions, well, dulcify and dry over hot Embers; of which take eight Ounces, put it into a Glass Retort, upon which pour Spirit of Vitriol, well rectify'd from its Flegm, eight Ounces; distill with a gradual Fire, soft at first, and at length very violent, continuing it so 'till nothing more will come. Take the Caput Mortuum, reduce it to Powder, and with Alcool, or tartariz'd Spirit of Wine, enough to cover it five Inches over, in a Marrals well luted, set it in a soft Heat to digest for after in fair Water they yield this Sort of twenty-four Hours, 'till the Spirit of Wine becomes very red; filter it hot and draw off the Spirit in a Glass Alembick, so you have at the Bottom a whitish Powder: Take of this Powder one Ounce; Rain Water four Ounces, digest in the Sun for some Days, then filter and keep it for Use: But the same Person, in making the same Water, did put double the above limited Quantity of Spirit of Vitriol, and then only drying the Caput Mortuum in a Crucible 'till it became yellowish, he to two Ounces of it put only three Ounces of Rain Water; digested them together for some Hours, then filtrated and kept the Liquor close stopt for Use, as an extraordinary Remedy against all Hemorrages, or violent Fluxes of Blood.

To conclude, The German or Dantzick Vitriol is in green Chrystals, inclining to a blue, of an astringent acrid Taste; it participates of Copper, and is that which is us'd to make

Aqua fortis.

Taste, coming near to that of white Vitriol, it participates of Iron, and does not make it Flegm, a great deal of acrid Salt, Sulphur, as I have hown in my Book of Chymistry.

River of Thames, in vast Quantities, of the then beating the Calx to Powder, calcine it

triol twenty-five Pounds, dissolve it in fair Marcasite Pyrites, or Fire-Stone, with Ad-Galls, or any other astringent Vegetables, you may make Ink, and the Black for Dyers; better, because that Experience teaches the even to the Verditer itself, which it will make of a dirty green Colour, wherefore Aqua fortis is made of Dantzick Vitriol only.

Dark green, or Roman Victiol, vulgarly call'd Common Green Copperas, is prepar'd about Rome in Campania, being extracted out of Clots or Lumps, of an ash Colour inclining to black, like Potters Clay, which being expos'd to the Air gradually hear and ferment, and being diffolv'd some Days Vitriol, but from the fresh Clots no Vitriol can be obtain'd. This Roman Vitriol is also prepar'd in some Parts of the Kingdom of Naples ; it is of a paler green than the German Vitriol, but almost of the same Styptick

Taste.

The Blue Vitriol, or Celestial Stone, is call'd Cyprian, or Hungarian Vitriol, because it is brought to us from those Countries; it is in Chrystals of a very fine Sky-colour'd Blue. It is not certainly known after what Manner it is made; some think it is extracted by the Evaporation and Chrystallization of the blue Water that is found in the Copper Mines: Others say it is an artificial Operation, perform'd by a Dissolution of Copper, in a weak Spirit of Vitriol, evaporated and chrystalliz'd. However it be, it participates much of the Copper, which gives it the blue Colour; it is acrid and fomething caustick; it comes in great and leffer Pieces, the little ones are pointed like Diamonds: It contains The English Copperas is in Chrystals of a much acrid Salt, or a corrosive Acid of Suldark green Colour, of a sweet aftringent phur, but less Flegm and Earth than other Virriols.

The artificial Vitriol of Venus is made by change its Colour. It is more than half of it taking little thin Pieces of Brass, about the Bigness of a Shilling; first put a Layer of and Earth. One may draw from this Vitriol Sulphur, then a Layer of Pieces, filling a a very good Spirit of Vitriol by Distillation, Pot full, Stratum Super Stratum, and calcine in a Furnace for two or three Hours; This Vitriol is made in England, upon the or calcine first the Copper by itself, and

again.

Calx fix Ounces of Sulphur, stirring it continually as it burns, that it may not stick to the Pan, and become black; powder the Calx again and calcine and repeat it three Times, 'till the Calx becomes very red. Take of this red Calx in Powder, one Pound; fair Water, fix Pounds; boil them together for about four Hours; let it cool and settle, decant the clear saphirine Liquor, and filtrate it after it has stood about two Days. The remaining Copper calcine as before with Sulphur, three Ounces, and with Water in like Manner draw the Tincture : This Process of calcining, boiling, settling, and filtrating, is to be done fix or feven Times, 'till with Water you have extracted the whole saphirine Azure, or blue Tincture out of the Copper. These blue filtrated Liquors put together, and in a large earthen Bell, in a Sand Heat, not violent, evaporate the Water 'till a Pillicle arise, which being then put into a cold and moist Place for a Night, will shoot into Chrystals like great Gems. Glauber, extracts the Tincture from calcin'd Copper, with Spirit of Sal Armoniack, by frequent Ignition and Extinction, and in an Hour's Space extracts a blue Colour, which being fet to chrystallize in a cold Place, shoots into most elegant blue Vitriol. Beguinus does it with Spirit of Vinegar, but then the Vitriol will be of an obscure green Colour.

The Native Blue Stone is good against Diseases of the Eyes, taking away Films, Clouds, Pearls, &c. Rheums, Redness, Inflammation and Blood-shot, if you take the Stone and put it into a little Spring or Well Water, for about two Minutes Time, and then take the Water with a Linning Rag to wash the Eyes, and drop two or three Drops into them, at Bed Time: It cureth any running Sore or Ulcer, or inveterate Fistula, Tetters, Ringworms, Scurf, &c. but for these latter Diseases, the Stone ought to lie in Water for a Quarter of an Hour. It remains in the Matrass, bruise or powder it, also helps the Canker in the Mouth, by rub- and throw it into a Retort, encreasing the

the Mouth with the Water.

two or three Grains, to twelve or fifteen in proper Liquors, against Diseases of the Head, Stomach, and Paris of Generation. It is by the Chymifts, from one Dram to two.

again, being first mix'd, with every Pound of often us'd in Injections in proper Vehicles, one Dram to one Pound of Liquor for all Sores, Ulcers, Scabs, Itch, Tetters, or any other cutaneous Disease. Inwardly it kills the Worms. It may be given in a small Dole against Diseases of the Stomach and Brain; it strengthens the Brain against a growing Epileply. It is also a Specifick to cleanse the Womb, and is held as a great Secret to dissolve a little of it in Water against the burning and intemperate Heat of the spermatick Vessels, and so to use it for Injections: For as this Vitriol possesses a large Portion of the Sulphur of Venus, which is able to appeale the Irritation of those Parts, so also it produces rare and eminent Effects, by Virtue of its deterfive and refrigerative Salt.

> The Red Vitriol, call'd Colcothar, is a Vitriol that has been naturally calcin'd in the Mines by subterraneous Fire, or artificially by ordinary. Fire. That which is found naturally in the Mine, is call'd Chalcitis, because 'tis taken from Copper Mines: It is a brownish red Stone, which is brought to us from Sweden and Germany: It is rare, and we have scarce enough of it to use in our Venice Treacle, of which it is one of the In-

gredients.

That is best which is of a reddish Brown, of the Taste of Vitriol, and easily dissolv'd in Water.

The Colcothar, calcin'd by the common Fire, is of a pleasant Red; the best is that which remains in the Retorts after the Distillation of the Spirit and Oil of Vitriol; both one and the other Colcothar contain a great deal of Salt and metallick Earth.

Vitriol is chymically analiz'd after the following Manner: Fill a Glass Matrass, or Cucurbit, up to the Middle with Vitriol powder'd; then clapping on the Head, fitting the Receiver, and luting the Joynts, distill it with a Sand Heat, that the Ross or Flegm of the Vitriol being of a strong sharp Tafte may be drawn off; then take of what bing the Place with the Stone, and wathing Fire gradually three or four Days, and you will obtain a Spirit and an Oil : And, Last. The factitious blue Stone is given from by, From the Caput Mortuum of the Vitriol diffolv'd, an Earth and Salt is obtain'd,

The Ros or Flegm of Vitriol is prescrib's

Virtues, being diuretick, vulnerary, anodine, and good to strengthen the Bowels.

The Spirit of Vitriol provokes Urine, excites an Appetice, and allays the burning Heat of Fevers, being given in a Cup full of rectified Spirit of Wine, and then it may be be shown hereafter. us'd in Diseases of the Gums and curaneous Distempers.

The Salt of Vitriol is endued with an emetick Faculty; it may be given from half a

Dram to two Drams.

The Colcothar, or red Earth, out of which the Salt was extracted, is effectually us'd in a Loosness, Bloody Flux, Hemor-

rhages and Wounds.

The spirituous Parts of Vitriol may be easily again recovered, if you expose the Caput Mortuum for some Time to the open Air, keeping it from Rain; so that by Distillation you may obtain another Spirit; but this Spirit is a great deal sweeter and weaker than the Common.

Paracelsus corrects the Spirit of Vitriol, by pouring it upon the Caput Mortuum, and then Distilling it nine Times over, every Time pouring on more fresh Spirit; and taking it out of the Limbick, he puts it into a Retort, and distills it over again with as much Spirit of Wine as is sufficient to make it into a Paste; this he highly commends in an Epilepfy, or Falling Sickness.

Of the Medicinal Stone of Crollius.

The Stone of Crollius is made of Pomet. English Copperas, White Copperas, Alum, White Por athes, or Natrum of Ægypt of common Salt, Salt of Tartar, Salt of Wormwood, Salt of Mugwort, Salt of Succory, Salt of Plantain, Salt of Arsmart, White Lead, Bole Armoniack, Myrrh, Frankincenfe, Vinegar of Roses; of all these in proper Dofes, as they are fet down in Crollius, Page 442, by the Means of Fire, is made a red Stone, endu'd with very excellent Properties, as the same Author remarks, which would be too long to be describ'd in this Place: But as this Stone is of great Consequence, both because it costs a great deal of Money,

and is mightily commended by them for its and because few Persons have the true Knowledge of it, the greatest Part of the Apothecaries substitute in the Room of it the Medicinal Stone, describ'd by Monsieur Charas, and Monsieur Lemery, because they can afford it cheaper than they who fell the true cold Water to a grateful Sharpness. This Stone of Crollius, this latter being made Spirit may be sweetned, digesting it with the of Druggs of a much lower Price, as shall

Of another Medicinal Stone.

Monsieur Charas, in the 1041 Page of his Pharmacopaa, describes a Medicinal Stone compos'd of the Vitriol of Cyprus, Salt of Nitre, white Lead, Allum, Bole Armoniack, Sandiver, Sal Armoniack, and common Vinegar; fo that one may see by these two Descriptions that there is a great deal of Difference betwixt this Stone and that of Crollius; and that more of this is likely to be fold for its Cheapness than of the other.

Of the Lapis Mirabilis.

The Lapis Mirabilis is so call'd because of its great Properties, a-Pomet. bove all for the Cure of Webs and other Diseases that happens to the Eyes of Horles.

This Stone is made by putting into an earthen Pot a Quantity of White Copperas, Alum, Bole Armoniack, Litharge, and common Water, as Monsieur Solleysel has remark'd in his Book, Page 86, to which they that have Occasion may have Recourse, as well to know the Dole as those excellent Qualities, by which it obtain'd such a Name.

21. Of the Pyrites, or Fire-Stone.

THE Pyrites, or Fire-Stone, is a Sort of Marcasite of Copper, of which they make their Copperas's or Vitriols; this Marcasite is weighty, of a Mouse Colour, sull of little, yellow, thining Spots.

There is a great Quantity of this Fire-Scone in France, especially at Passy near Paris.

Pyrites

It is found in the Copper Mines in Italy, from whence they draw the Roman Vitriol.

To get the Vitriol out of this Stone, it is necessary to expose it to the Air for several Months together, that so the Acid getting insensibly into the Pores may rarify its Parts, and render its Salt more dissolvable, by this Time it is converted in a Manner to a Chalk, from whence they extract the Vitriol, by washing it several Times with Water, and making Evaporations and Chrystallizations as are necessary, and as they do in the making of Saltpeter.

The Pyrites is deterfive, aftringent, deficcative, digeftive, resolutive, and to be ap-

plied outwardly.

22 Of Lead Oar.

Oar that differ one from the other, only according to the Digestion they have receiv'd in the Bowels of the Earth. The First, that is to say, that which has receiv'd the least Heat, and by Consequence is most weighty, is that which has the Name of Lead Oar, and is made into Lumps call'd Pigs, by the French, Salmons.

This Lead Oar is a weighty Mineral, easy to break to Powder, and difficult to melt, which is taken out of the Mine in Pieces of different Bigness, sometimes clean and near, fometimes mix'd with Stones, resembling a

certain Sort of Marble.

This Lead Oar being broken, parts into

very like the Shoots of Antimony.

The English melt this Lead, and afterwards cast it into Moulds of the Shape we see the Pigs in. The Lead Oar is of no other Use in France but for the Potters, who make use of it, having first reduc'd it to Powder to varnish the Earthen Vessels of a green Colour with it.

Consequence, yet great Care must be taken should not be heavy, of a black shining Sil concerning it; for if there thould chance to ver Colour, not too hard nor too folt, easy

Pyrites is a Sort of Copper Mar- be any other Metal in it, as there is found casite, or hard Stone, heavy, which to be too often, it would spoil all the Potfends forth Sparks of Fire upon ters Ware, to the great Trouble of striking it with Iron of a grey Colour, inter- him that sold the Commodity; for this Reafpers'd with little, yellow, thining Streaks: son you should never sell it to the Potters, without showing it them Piece by Piece, and taking a Note under their Hand, that they are satisfied to avoid farther Trouble.

> The Lead Oar that has the requisite Qualities, ought to be in large Pieces, heavy, with fine shining Scales, as if fat, that is to say, easily tractable. In a Word, the most approaching to Tin-glass that it can possibly; and reject that which is full of Stones and Dirt, or Gravel, as good for nothing, as well as that which is mixt with the Lead Oar of the fecond Sort that I am going to speak of.

The Lead Oar of the second Sort is less weighty, and much harder than that beforemention'd, and being broke is of a Moule Colour, of a coarfer Grain, and smooth without, in some Measure resembling the black Lead; which shows that it has not receiv'd Heat enough to be converted into the black Lead Oar. This Quality makes this WE have three Sorts of Lead Lead Mineral to be entirely rejected, as being of no Use: And this Quality is often found in the first Sort, which causes so much Trouble to the Workmen, because they can no more melt it by the Fire than they can do Marble, and it spoils all their Work. However, I must take Notice, that some Alchymists desire it to draw their Lead out of it; for they pretend that the Lead drawn from it is more ductile and close than common Lead is found to be. Others will have it that there is some Silver in it which I leave other Persons to try; but as it is seldom us'd I should not advise any Person to surnish himself with any Store of it.

The third Sort of Lead Oar is very much shining Flakes, of a White, enclining to Black, us'd, and 'tis that we call Black Lead, or Crayon, because the most perfect of it serves to make Pencils to defign withal. The Ancients gave it the Name of Plumbago, and of Sea Lead, because they pretend they took it from the Bottom of the Sea; Foreigners call

it Potelot.

We have at Paris two Sorts of Black Lead, to wir, the Fine and the Common. The Although this Merchandize be of no great Fine to be perfect, and in good Condition, the Infide, and not gritty, of a fine close Grain, in moderate Pieces, rather long, proper to cut, and make the long Pencils that are so much esteem'd. Lead of these Qualities wants for no Price, the Merchant may have what he pleases, being much sought for by Architects and other Persons for Drawing. England, but as for the Common it is brought what we call Scum or Lead-Ashes. from Holland, and is of no great Use.

Monsieur Morin, Physician and Mineralift, has affur'd me that there were a great many Lead Mines in France, especially in Auvergne, from whence we might have these three Sorts of Lead, and this may be relied upon, he being a Person that would not affirm is reduc'd to a brown Powder.

an Untruth.

of Lead in Pigs.

They call Lead in Pigs the Lead Mineral, melted and purified from the Stone and other Impurities, which being well refin'd, by scuming and throwing Suet, or other Greate into it, is cast into Moulds to make Pigs of

different Sizes.

The Lead fo refin'd, to have its due Requifites, should be soft, that is to say, easy to cut, pliant, and the most white and shining that can be. The different Uses that are made of Lead, as well in several Trades, as in Chymical Operations, is the Reason of so large a Consumption as there is of it, as well in Europe, another Parts of the World.

Of Lead in Powder.

is the Reducing it to Powder, not in the Manner some Apothecaries use to reduce it, by rasping it and beating it in a Mortar; but by melting Lead in an Earthen or Iron Vessel, the Dust of beaten Charcoal, stirring it about, and in this Manner you may sooner reduce into Powder a thousand Weight of from it, you have nothing to do but to wash very little us'd but by the Potters, who use dry. Potters use a great Deal to glaze

to be cut; and when divided, compact in it as Lead Mineral for glazing their Earthen Ware.

Lead in Powder, especially that which is in a Powder almost impalpable, has some Use in Medicine, because it is an Ingredient in fome Oyntments, as the Pompholyx and others. They which refine Lead and make Musquet Bullets, or small Shot, send us their This Sort of Lead comes generally from Scum, which we fell to the Potters, and is

Of Burnt Lead.

Burnt Lead, which the Latins call Plumbum Ustum, is Plates of Lead put into a Pot with Sulphur, and by the Fire the Lead

Burnt Lead has some Use in Medicine, because it dries and is an Ingredient in some Oyntments and Plaisters As to its Choice, there is no more to be faid than that it be clean and well burnt : Some wash it to separate the Impurities, or the Sulphur that remains in it.

Of Red Lead.

The Red Lead, which we call Minium, is Lead Oar pulveriz'd, calcin'd, and reduc'd to such a Red Powder as we see it. It is wrong to think that the Red Lead which is brought from England is made of the Pig Lead, the Cheapnels of it flews it to be otherwise, and that it is made from the Lead Oar as it comes from the Mine: Besides, the Pig Lead will never come to that Redness as Mineral Lead, whatever Fire you give

Minium ought to be chose for its high Co-The first Preparation that is made of Lead, lour, the finest Powder, and cleanest that can be, and Care must be taken that it has not been wash'd, which will be known by its whitish Colour, and the little Lumps that are commonly in it. One may draw Merand when it is melted by throwing into it cury, from Minium, with Lime or File-Dust; but it is in so small a Quantity, that it is scarce worth speaking of.

The Red Lead is of some small Use in Me-Lead, than one Ounce the other Way. To dicine, because it is drying, and gives a Boclean the Lead, that is to separate the Coal dy to some Oyntments and Plaisters. Painters use it as well for painting Red, as to it in Water, and dry it. Lead in Powder is mix with other Colours to make them

their Ware of a reddish Colour; and there of no long Duration because of the Chalk calion for it.

Of White Lead.

"White Lead is Pig Lead reduc'd to Leaves, and afterward roul'd as you would do a Sheet of Paper, but so that this roul'd Lead does not touch one upon the other. This Lead fo roul'd is put upon small Sticks, which are laid in Pots, the Bottom of which is cover'd with Vinegar. These Pots being fill'd must be stop'd, so as that no Air may get in, and afterwards left in a Dunghil for thirty Days together, after which they open the Vessels, and find therein the Lead, become white and brittle; taking then these Leaves out they break them in Pieces, and afterwards expose them to the Air to dry them.

Choice is to be made of such White Lead as is brittle, white without and within, Flakes, Duft, and other Impurities as can

The White Lead has no other Use, that I know of, but for the Painters, being ground with Oil or Water, it being then the most beautiful White that we have, and of the longest Duration, but then it is a very dangerous Drugg, both to grind or to beat to Powder.

Of Cerule.

The true Ceruse, or Chalk of Lead, Pomet, is White Lead in Powder and ground with Water, and afterwards put into Moulds, and so made up into little Cakes, which they dry, and afterwards put into blue Paper, as we find them. This Cerufe, fo prepar'd, is that which one may call the Chalk of Lead, and not that which we fell at present, that comes from Holland or England, it being almost all common Chalk, as I am going to relate.

The true Ceruse is that which we call the is penetrated, rarified, and half Venetian, because the Venetians were the first dissolv'd by the Vapour of Vinethat made it, but as it is extreamly dear, gar, and reduc'd into a very white Subwe have little but the other Sort which stance that is heavy and friable. When you comes from Holland, because the Painters wou'd make this Ceruse, the Lead is to be esteem it as much as the Venetian, but they beat into fine thin Plates, which are suspendare very much in the wrong; for the Dutch ed or hung over Earthen Pots, in which they

are several other Tradesmen that have Oc- that is in it, which does not happen to the true Venetian Ceruse; which is only the White Lead ground; so that if one had the true Venetian Ceruse there would be no Need of grinding White Lead, and consequently the Danger would be avoided that Persons meet with by grinding it, which often occasions several Diseases, and sometimes Death it-

If they who have Occasion for Ceruse to uso in Medicine, or to make Salt of Saturn, would use the true Venetian Ceruse, they would find their Operations more perfect: And instead of taking the Ceruse in Cake, they might take the White Lead ground and make it serve all their Purposes; but then it must be bought of honest Persons, for none but they who ground it can answer for it: However the true White Lead ground is extreamly white, foft, and friable.

It is remark'd, that the Hollanders to in handsome Scales, and with as few blackish make their Ceruse, use only the Dust that comes in Bruifing their White Lead; and as this Dust could not supply so great a Quantity of Ceruse as is us'd in France, and other Countries, and they could not otherwise afford it so cheap, they mix a Sort of Marle or white Chalk with it. As for that which comes from England, it is still worse than that from Holland, because they mix more of that Stuff with it, and it is not of fo good a Colour. They who grind the White Lead to make Ceruse of it, have Water-Mills, and afterwards they cast it in little Moulds to form it into Cakes, which to have its proper Qualities should be extreamly white, fost, friable and dry, and the least broke or mix'd with little Dust that can be, especially if it be for Sale; you should reject that which has not a good Body, but cracks in handling it, which proceeds from its being made up before it was well dried, or by having been damag'd by fome Wet coming to it.

Cerusa, or Ceruse, is a Lead that

Ceruse ground with Oil or Water, is a White have put Vinegar; and when the Pots are

full of this Lead, they place it in a proper Gold-colour'd: These different Colours a-Hear, so that the Vinegar may, by its Fume or Vapour, have Power to penetrate and attenuate insensibly the Matter. After this has remain'd about a Month in the Fume, they open the Mouth of the Pot, and find all the Plates of Lead reduc'd into a white brittle Substance, which they call White Lead, and break these Plates into Pieces, which are us'd by the Painters. This White Lead is ground upon a Porphyry, with a little Water, and made into a Paste or Cakes, which being dry'd are fit for Transportation. The Workmen, in this Commodity, chuse to put it up in blue Paper rather than any other, in order to make the Ceruse look whiter; the best, the purest and whitest, is brought from Venice: That which comes from England and Holland is mix'd with a Kind of Chalk or Marle, [as has been observ'd by Pomet.]

Of Sandix, or Red Ceruse.

The Sandix is nothing but Cerufe Pomet. redden'd over a gentle Fire; but as this Sandix, or Red Ceruse, serves only to the same Purposes as Minium, it is therefore but little used. Some Moderns have writ that Minium, or Red Lead, was made of Ceruse turn'd red upon the Fire: But as there is nothing more falle, so there are some who write by Hear-say, as is easy to prove: Forasmuch as the Ceruse comes from Holland, and the Minium or Red Lead from England; and besides, the Ceruse is always dearer than the other.

Minium, or Sandix, is the Lead Oar pulveriz'd and made red by a Lemery. long Calcination over the Fire, it is aftringent and deficcative, being us'd in Plaisters and Oyntments: They likewise use it in Painting, and to varnish Pots of a red Colour; it is call'd Minium from the Word Mina, because it is made of the Lead as it comes from the Mine.

of Masticor.

rife from nothing but the different Degrees of the Fire they give the Powder of White Lead, of which they are made. Tho' the first Sort, which is that which has sustain'd the least Degree of Fire, is call'd White, yet it is not of a true White Colour, but of a whitish Yellow. The Second is yellow, and endures a ftronger Degree, and the Third of a Gold Colour, and has futtain'd more Fire than the former; and they might make a Fourth, by Calcining it 'till it becomes red, which would make it a true Sandix, or common Vermillion: As to the Choice of them, they ought to be heavy, in an impalpable Powder, of a high Colour, according to the Appellation they bear of true Masticot; they are only serviceable for the Painters, tho' Lemeny fays they are deficcative, and useful mix'd in Plaisters or Oyntments.

Of Natural and Artificial Litharge.

The Natural Litharge, which the Ancients call'd by the Name of Molibdana, is a Kind of metallick or mineral Body, in Crusts or Flakes, of the Thickness and Figure of White Lead, of a reddift Colour, easie to break, which is found in the Lead Mines: But as this Litharge is known to very few People, and is scarce to be met withal, therefore the Artificial Litharge only is us'd, which is improperly call'd Gold or Silver Litharge, because the Ancients, and after them the Moderns, pretend that this Litharge lerv'd to purifie or refine Gold and Silver, which is far from Truth, fince all the Litharge we have now from Poland, England, or other and this is brought from England, whereof Parts, as Germany, Sweden, and Denmark, that of the highest Colour ought to be chosen; is the Lead made use of in refining Copper. Nevertheless, I do not deny but that those who refine Gold and Silver make Litharge: but that is not what is fold, because the Refiners melt theirs into Lead again to serve anew, and to recover the little Gold or Silver that was carry'd off with it. Thefe People ought to be undeceiv'd who believe, according to what some Moderns have writ. that Litharge is the Fume of Lead evapo-There are three Sorts of Masti- rated in the Refining of Gold and Silver. cot that are brought from Holland, and that it is like Soot that flicks to the to wit, the White, the Yellow, and the Chimney: So also these shou'd be undeceiv'd who believe that there is any Difference in in little Shoots, or thining Chrystals, and as the Litharges from their Colours, fince those are only occasion'd by the Force or Violence of the Fire. The Dantzick Litharge wife that which is most calcin'd, and of a and the Other that of the Plantain Water; lively Colour, that will eafily dissolve in any unctuous Liquors, in which it is usually imploy'd. This Commodity is much us'd in France, as well by Potters to glaze their Earthen Wares, Dyers, Painters, and others, as by Apothecaries, who make it the Basis of most Part of their Plaisters and Oyntments:

Lithargyrus, five Lithargyrium, Lemery, or Litharge, is a Lead ting'd with the Impurities of Copper, and reduc'd into the Form of Drofs, of metallick Scum; by Calcination; this is made upon the Purification of Copper in Poland, Sweden, and Denmark: There are two Sorts, one call'd Liebargyrium Auri, feu Chryfiels, or Litharge of Gold; the other Lithargyrium Argenti, or Litharge of Silver; the Difference of Colours makes no Difference in the Virtue of them. There is likewise a Litharge made in Refining Gold or Silver are deficcative, cooling, deterfive, and give a Confistence to several Plaisters, for they dissolve in boiling with Oil and fatty Bo-

Of Salt, or Sugar of Lead.

THE Sale or Sugar of Lead is made of White Lead, and the true Venetian Ceruse, infus'd in distill'd Vinegar, then filtred, evaporated, and reduc'd into a light Mass, that is white and chrystalliz'd, of a sweet sugary Taste, yet nevertheless pretty disagreeable. The greatest Part of those who make Salt of Lead, do it with Dutch Cerufe, such as we sell, for which Reafon they can fell it nothing near so cheap as that made of Venetian Ceruse; because, as I faid before, the Dutch is mix'd with Chalk, which will yield no Salt; and some make it. of Lead in Powder, Minium, or Litharge, none of which will afford so much Salt, and confequently can't be fold fo cheap: Chuse to allay Inflammations and cure Pimples in that which is of the Tafte aferefaid, white, the Face.

light as may be, which when dissolv a ... Plantain Water will look like Whey; which Tryal will answer two Purposes, the One to is to be prefer'd before the English, so like- know the Goodness of the Salt of Lead, its Use is to cool, being given internally or externally, for which Reason it is reckon'd proper to stop the Flux of the Belly, and for fore Throats, taken from three to four Grains in Plantain Water. Most of those who make this Medicine make it heavy and greyish colour'd, which proceeds from the Lead not being well purified, or that it was not made with good Vinegar. For to make the Salt fine and light, it ought to be purified at least four Times.

Of Ballam, or Oil of Lead.

They call that Balfam, or Oil of Lead, that is made of the Salt dissolv'd in Oil of Turpentine; but others content themselves with patting Salt of Lead in a Cellar to run into a Liquor. The first Balfam or Oil ought to be prefer'd to the other, in that it is proper to cleanse and cicatrize Ulcers, and because it by the Cupell, but it is but in small is more capable of resisting Purrefaction, Quantities, tho' like the other. All the Sorts Others make Oil of Lead, by drawing a burning Spirit of Lead, which they make by filling two Parts of a Retort with Salt of Lead, and by the Means of Fire, drawing thence a Spirit that burns like Brandy; but as this Oil is not so strong as that made with Oil of Turpentine, it serves to cleanse the Eyes, especially of Horses and other Beasts. Spirit of Lead is an excellent Remedy to refift the Putrefaction of Humours.

Of Magistery of Lead.

Magistery of Lead is made of Salt of the Lead that has the required Qualities, diffolv'd in distill'd Vinegar mix'd with common Water; and by the Affiftance of Oil of Tartar per deliquium, precipitated into a white Powder, which after it is wash'd and dry'd, is very useful to cure Tetters and Ringworms, being mix'd with some Pomatum: It likewise makes, with Vinegar and Water, a Sort of Virgins Milk, that is good

of Vinegar of Lead.

The Vinegar of Lead is Vinegar diftill'd, wherein have been digefted Cerufe and other Preparations of Lead, which is made use of to cure Tetters, or being well incorporated with Oil of Roses to make a Kind of Oyntment, call'd Butter of Lead.

Of Natural or Mineral Zink.

It is not with Zink as with Tin-glass; for-assuch as 'tis not only probable, but certain, that there is a a Natural Zink which the Germans call Beauter, and the Flemings Speauter, we Spelter. The Mineral Zink is sound in great Quantities in the Mines of Gosselar in Saxony; it is at present very scarce in France, for which Reason it is much enquired for by some People. This Metal is a Kind of Lead Oar, except that it is harder, whiter, and more brillant. Some People have assured me, that the Zink we sell in great square Cakes is cast Mineral Zink, that after it has been fined is thrown into Moulds of the Figure as we have it, which I can easily believe, it being impossible to make it of

Lead, Arsenick, Tartar, and Saltpeter, as Mr. Charas has observed. The Zink, which some improperly call the Female Antimony, ought to be white, in fine Flakes, the least sharp, and the most difficult to break that can be: For the more it endures the Fire, and the siner and larger the Flakes are, the more it is valued by the Workmen that use it, especially the Founders.

The Zink at this Time is much in Use, fince the Tin-men have found it more proper to clean their Tin than Pin-Dust and Rosin. Tis wrong to believe that Zink is mix'd with Tin to encrease its Weight; for anto a Fount of five or six hundred Pounds of Tin, they put but one Pound of Zink, and which is wonderful, the Zink has the Quality of purifying and whitning the Tin, and acting upon it as Lead does upon Gold, Silver, or Copper. This Zink is us'd to give Copper the Colour of Gold, especially when mix'd with Turmerick; and works upon Copper as Arsenick does that turns it of a Silver Colour;

or the Lapis Calaminaris that makes it yellow-

ish; or, lastly, as Hungarian Vitriol that turns.

Iron into a Copper Colour, as hath been ob-

ferv'd in the Philosophical Transactions of the

Royal Society at London.

End of the Second BOOK of METALS.

BOOK the Third, of the Third Volume.

Of MINERALS.

The PREFACE.

Dr Mineral, in its general Signification, is understood, whatsoever partakes of the Mines, or is increas'd in, or has pass'd thro' them. But as it is the Subject of this Book, it is taken in a more particular Sense; in which it is by some, said to be a fix'd and folid Body, produc'd by Exhalations and Vapours, inclos'd in the Bowels of the Earth, as Meteors are form'd in the Regions of the Air; or as others will have it, that 'tis form'd of a tender Substance, produc'd in the Earth by Coagulation, and encreas'd by the external Addition of Sensible Particles, which oftentimes is the Matter that in Process of Time commences Metal; so that I shall comprehend, under the Name of Minerals; every Thing that is of a Metallick Nature, and which differs only from Metals, in not being malleable, or that is not capable of Fusion as the Loadstone, &c. We shall begin therefore with Antimony, which comes nearest the Nature of Metals, and differs from it only in not being ductil.

1. Of Antimony.

R. Furetiere says, Antimony is-a Mineral that comes very near the Nature of Metals; and that some are of Opinion it contains all the Principles metallick Mines, more especially near those of Silver and Lead; that it contains a dou-Gold, the other earthy and combustible, not racelfus brought it into Vogue; but them in

unlike common Sulphur; a fuliginous, footy, ill digested Mercury, partaking of the Nature of Lead; and somewhat of a terrene fix'd Salt. The same Author observes also, that the Use of Antimony, unless in the Composition of Fucus, or Cosmeticks, was wholly unknown, 'till about the twelfth Age; but then a cerof them, for that it is found near all Sorts of tain Monk, Bafilius Valentinus by Name, publish'd a Book intitled, Currus Antimonii-Triumphalis, wherein he undertakes to affirm; ble Mineral Sulphur, the one Metal- that it was a Remedy against all Sorts of lick, approaching the Purity and Colour of Diseases. Three hundered Years after Paby Act of Parliament; and accordingly one Besnier, a Physician, in 1609, transgressing it was excluded the Faculty. In the Year 1637 Antimony was again receiv'd by publick Authority amongst the Number of purging Remedies; and in 1650 the Act of State made in 1566 was repeal'd, Anno 1637, the Faculty caus'd it to be inserted in their Antidotarium, printed that Year; herein following the Opinion of Matthiolus: And in short, on the 29th of March, 1668, gave it the Sanction of publick Authority, by which Graduates had a Liberty of making use of it, but with a Probibition to all others, unless by their Advice: It acquir'd the Name of Antimony, according to the Opinion of fome, from a German Monk, the aforefaid Valentin, who, in his Search after the Philosophers-Stone was wont to make much Use of it for the more ready Fluxing his Metals, and throwing a Parcel of it to some Swine, he observ'd that they had eaten it, and were thereby purg'd very violently, but afterwards grew the fatter upon it; which made him harbour an Opinion, that the same Sort of Cathartick, exhibited to those of his own Fraternity, might do them much Service; but his Experiment succeeded so ill, that every one that took of it died ! This therefore was the Reason of this Mineral, being call'd Antimony, as being destructive of the Monks.

Of Natural or Mineral Antimony.

Antimony is taken from the Mine in little Stones of different Bignels, refembling Lead-Oar, with this Difference, that it is both lighter and harder; and by Reason of this Similitude, some call it Black Lead, or Marcasite of Lead; others Saturn, or the Philosophers Wolf, because it devours and confumes all Metals whatever, Gold only excepted: It is also call'd Proteus, from the Diversity of Colours is assumes by Means of the Fire; but its more ordinary Appellation fent to us. is Mineral Antimony, and it is call'd by the more understanding, Crude Antimony, as never having sustain'd the Fire.

the Year 1566 the Use of it was condemn'd those in France. The best Mines are those of Poictou and Bretagne.

Mineral Antimony is sometimes met with pure, and fometimes attended with a Sort of Stone, which the Mineralists call Spar; there is some full of Stria, like so many Needles; others also all over of an odd sooty Black : This Antimony is of very little Use in Medicine, unless it be purified by melting, as will be seen hereaster : The Chymists use it, indeed, for their particular Preparations.

The purest Mineral Antimony is to be chosen, that is, as free as possible from all Sorts of Stone or Spar: It matters not from whence it comes, provided it be good, though there are those that pretend the Antimony of Auvergne to abound most with Sulphur.

Some Gentlemen of the Retinue of the Ambassadors of Siam have brought Home confiderable Quantities of Mineral Antimony, but no Experiments have yet been made of it. This Antimony is white, and full of small Needles; and as far as I can understand, altogether proper for the same Purpoles as the Mineral Antimony of France. As for that of Hungary, I can fay nothing of it, never yet having feen any

Of cast or melted Antimony.

Melted Antimony is what we improperly call Crude Antimony, because it has undergone the Fire to reduce it into Cakes and Needles, after the Manner as we see. To melt Mineral Antimony, the Mineralists take two Earthen Poss, one whereof they fill with the Mineral in Powder, the other they place empty in the Midst of a strong Fire, laying a Sort of an Iron Skimmer upon it, upon which they put the Pot of Powder turn'd Upfide down; then encompaffing both the Pors with Fire, the Antimony will melt and pass through the Holes of the Iron Plate, and fall into the empty Por underneath, and form itself into a Cake as it is

The Iron Plate with Holes, put between the two Pots, ferves to keep back the Stoneor Spar that's found commonly with the Mi-Heretofore Hungary was the only Place neral Antimony. When the Antimony is meltfor Mines of Antimony, but now we have ed, take the Pot off the Fire, and when none from thence, fince the Discovery of cold, break it and take out the Antimony,

which then may be conveniently fent whither you pleafe.

Formerly was to be met with in France, the Hungarian Antimony in Cakes or Loaves of three or four Pounds Weight, interwoven with small Needles running a-cross each other, of a golden yellowish Colour, and at Bottom white inclining towards that of Silver. This Antimony was found in the Mines of the Mountains belonging to Presburg, the Capital of the lower Hungary, where it was melted and made into the Figure we find it. But this is now so scarce, that it's next to an Impossibility to find out any of it. Those that have work'd upon this Sort of Antimony have affur'd me, that 'twas much fitter to yield whatever uses to be obtain'd from Antimony than that of France; and withal, that from every Pound of it they con'd obtain two Ounces of berter Mercury than that of Spain.

In France we have several Sorts of Antimony, which differ only according as it is better or worfe cur'd: And the next best to that of Hungary is what we have brought from Saumur in Anjou, whither it is sent purified

from Poitou.

The Antimony of Poiton appears with fine beautiful Sort of Needles, long, large, white, sparkling, light, and easily broken, and with as little half-melted Antimony as may be, which refembles the Drofs of Iron, which is commonly found at the Borrom of the Loaf in Scorie, and is call'd the Bottom or Top of Antimony. This Defect, however, is feldom found in the Antimony of Poitou, by Reason they are well vers'd in Refining or Melting it; and this is the Sort of Antimony that should be us'd in all the following Operations, because it abounds less with Sulphur, and affords more of the Regulus. We have had, for some Time past, an Antimony from Bretagne in small Needles very pure, and perfectly fit for the same Purposes as that of Poitou. A third Sort is that we have from Auvergne, which in one Word is good for nothing, being very hard, full of Drofs, and in small Needles of a tawny Blue, which makes it evident that 'tis not half purified, nor divisted of its setid and malign Sulphur, which gives Abundance of Trouble and Difficulty to those that work upon it.

Besides the great Number of chymical

Medicines which are made of, or drawn from Antimony, Abundance of Artificers use it both to promote the Melting of Metals, and also to make the Regulus, especially in England, whither we fend a great Part to put in their Pewter to make it the harder, whiter, and more founding: But I observe, nevertheless, that of late Years the English don't make so much use of it, because instead of the Regulus of Antimony they use Tin-glass. The Letter Founders for Printing use Antimony, to render their Lead the more durable and hard. Antimony melted, and boil'd in a Ptisan with Salfaparilla, Guaiacum, &c. is a certain Cure for the secret Disease. And how much soever this Drugg has been condemn'd and out of Use in Times past, it is altogether as much in Vogue now. When you make use of it break it in small Pieces. or reduce it into a gross Powder, and put it into a Linnen Rag to be boil'd with other Things. Some give the Powder instead of the Liver of Antimony to their Horses, and say it has the same Effect.

I shall not lose Time here to enter into a Disquisition, whether there be Male and Female Antimony, as most Authors affirm, and that the Male is the coarser, more sandy, scaly and light, and consequently less efficacious than the Female, which is more ponderous, bright colour'd, and more brittle; for I have dealt a great deal in Antimony, and never knew any other Difference, but that of its Purification. And when it is good it may ferve alike to all Purposes, so that I don't see how there can be two

Sorts.

Antimenium, five Stibium, or Antimony, is a Mineral approach-Lemery. ing very near to a Metal. It is heavy, thining, and in Chrystals, thooting like Needles, of a blackish Colour, which is found near the Mines of Metals in several Parts of Europe, as Hungary, Transilvania, Britany, Poitou and Auvergne; they get it in Pieces bigger or less, full of little hard Stones or Pebbles, which the Workmen call Gangue: They take the clearest, or that which has leaft of the Gangue in it when they make use of it, for several prefer the Mineral Antimony before that which is cast and purified.

it over the Fire in Pots or Crucibles, in order to separate the Gangue or Dross; which Cooling, they cast it into Cakes, as it appears when brought to us, which we usually, tho' improperly, call Crude Antimony, notwithstanding it has past the Fire. Hungarian Antimony was formerly brought into France in little Cakes, full of small Shoots like Needles, sticking interchangeably one with the other, that shine, and are inclinable to white, like Silver Oar; but fince this Mineral has been discover'd in France, we have none comes from Hungary, whence it is become very scarce. The Antimony we ordinarily use is brought from Poitou, which you ought to chuse near, in fine, long, brillant Shoots, easie to break; it is naturally compos'd of a great deal of Sulphur, like common Sulphur, and of a Kind of a Regulus, Jike a Metal. But you have a further Account of it in Mr. Lemery's Book of Chymistry, to which I refer you.]

Of the Regulus of Antimony.

The ordinary or common Regulus of Anzimony, without Mars or Iron, is made of Antimony, Saltpeter, and Tartar, melted together, and caft into a small Mortar, greas'd, and so by the Knock of a Hammer the Regulus is made to fall to the Bottom, which if the good ought to be white, in beautiful Scales, and just like Tin-glass. If the Regulus shou'd not prove good at the first Operation, it may be melted and purified again with a little Saltpeter; the oftner it is melted the more will it decrease, but the better will it also be.

Of this Regulus are made the Cups and Pills, and other chymical Operations, as

shall be seen hereafter.

Of Regulus of Antimony with Mars.

The Regulus of Antimony with Mars is made of Antimony, Saltpeter, and Points of Horse Nails, or small Nails melted together; which by Means of the Fire, and proceeding much after the Manner as in the preceding Operation, is reduced into a Regulus.

This Regulus, if good, is much like the also because we cannot me other, but withal ought to have a Sort of Advantage as the Dutch do.

To purifie or refine Antimony, they melt over the Fire in Pots or Crucibles, in order to separate the Gangue or Dross; which cooling, they cast it into Cakes, as it appears then brought to us, which we usually, the brought to us, which we usually, the properly, call Crude Antimony, notwith-maproperly, call Crude Antimony, notwith-maproperly, call Crude Physical Antimodel Cause of Fire the Regulus has undergone.

Of this Regulus is prepar'd the purging, or rather the emetick Wine; and here you ought to be caution'd to throw away the three or four first Wines you make with the Cups, least it shou'd produce some ill Accident.

Whereas most People that have Occasion for the Goblets or Cups of the Regulus, find Difficulty to come by them, let them apply to a Founder and they may have what Sorts and Sizes they will, at a cheap Rate, without troubling themselves with Moulds, as several have done to their Labour and Cost, who have at last been obliged to give over the Attempt, not being able to make one Cup without a Hole or some other Defect. You may also get these same Founders to make you the perpetual Pills, or you may easily make 'em yourself with a Musket-Ball Mould.

The Pills serve for those that have the Twisting of the Guts, or Miseree Mei, so call'd. When they are return'd from out of the Body, 'tis but washing and cleaning of 'em again, and they'll serve as oft as you please, which gives them the Name of Perpetual. They may also be insus'd, as well as the Regulus in Wine, cold, for the Space of twelve Hours, which is said to be a good Medicine for strong Constitutions.

of Glass of Antimony.

The Glass, or Vitrum of Antimony, is an Antimony separated from its Sulphurs, which are a deadly Poison, and for that Reason ought the Operation to be performed in a Chimney to avoid the Exhalations; then it is to be melted in a Crucible, and cast upon a hot Marble to make it in the Manner we behold it, and as it comes to us from Holland.

'Tis an Operation I cannot advise any one to undertake, not only upon Account of the great Difficulty and Hazard attending it, but also because we cannot make it turn to that Advantage as the Dutch do.

Choose

Choose the Glass of Antimony that is flat, of a bright Red, and transparent, having as sew small, thick, black and grey Pieces in it is severy full of Sulphur, as because it is not so well-cleans'd as the Former; and after it has seen expos'd some Time, being mix'd to gether, to the open Air, put a sufficient Quantic the Colour the better, and to make it so fine colour'd as we see it, but the Truth of the Fact I know not. Instead of throwing it upon Marble, one may put it in a Founder's Mould, and so make the Goblets or Cups; but this is a Work only for the Curious, there being no Demand for the Curious, there being no Demand for the Sulphur, as because it is not so well cleans'd as the Former; and after it has seen expos'd some Time, being mix'd to a gether, to the open Air, put a sufficient Quanticy thereof into a Mortar, or Iron Por, plac'd in a Chimney; and upon Application of the Fire, a great Noise, which the Chymics and the Vessel colour the better, and to make the Goblets or Cups; but this is a Work only for the Curious, there being no Demand for the Curious, there being no Demand for the Chymics and the Sulphur, as because it is not so well cleans'd as the Former; and after it has seen expos'd some Time, being mix'd to plack the porn Air, put a sulphur, as because it is not so well cleans'd as the Former; and after it has seen expos'd some Time, being mix'd to plack the porn Air, put a sulphur, as because it is not so well cleans'd as the Former; and after it has seen expos'd some Time, being mix'd to pen Air, put a sulphur, as because it is not so well cleans'd as the Former; and after it has seen expos'd some Time, being mix'd to pen Air, put a sulphur, as because it is not some all the sulphur, as because it has seven expos'd some Time, being mix'd to pen Air, put a sulphur, as because it has some expos'd some Time, being mix'd to pen Air, put a sulphur, as because it has subjected to a sulphur, as because it has a sulphur as the sulphur as sulphur as sulphur as the sulphur as the sulphur as the sul

This Vitrum of Antimony serves for a Vomit, taken from two to six Grains. Apothecaries make a Syrup and the emetick Wine with it.

Of the Liver of Antimony.

The Liver of Antimons, improperly call'd Crocus Metallorum, is made of Antimony and common Saltpeter, mix'd and incorporated well together, and by Means of lighted Charcoal reduc'd into a Stone, after the Manner as we have it.

This Liver of Antimony ought to be chosen in fine shining Pieces, starr'd, smooth, brittle, and when bruis'd or pulveris'd, of a reddish Saffron Colour, which is the Reason of its being call'd the Crocus or Saffron of Metals; but in Pieces it ought to be Liver-colour'd, from whence also comes the Name of Hapar, or Liver of Antimony.

This Liver is a Sort of Catholicon for Horses; more especially to purge and put them in Case, if taken from one Ounce to two in wet Bran, as Mr. Soylesel directs, in his Book call'd The Compleat Farrier: 'Tis of some Use in Medicine, but so little it is hardly worth speaking of; but on the contrary 'ris much us'd for Horses, as well under the Names above, as under that of Imperial Powder.

This Operation, which feems the easiest in the World, is notwithstanding very difficult to be perform'd with Success, more especially if one has not good Antimony and Saltpeter, or if it be fill'd with Salt, which but too frequently happens: Those therefore that undertake this Operation must dry the Saltpeter and make Choice of the Antimony of Poiron, not of that of Auvergne, as well because

fo well cleans'd as the Former; and after it has been expos'd some Time, being mix'd together, to the open Air, put a sufficient Quantity thereof into a Mortar, or Iron Por, plac'd in a Chimney; and upon Application of the Fire, a great Noise, which the Chymists call a Detonation, will happen; and when that is over, and the Vessel cold, it must be separated from its Dross or Scum which is white, and the Bottom will be a Stone, such as I have describ'd. Note, You had not best make use of a cast Mortar for fear of breaking, which fometimes happens, or be apprehensive of the Fire thereupon. On the contrary, this Operation is the best Thing imaginable for Sweeping a Chimney; but observe to put a Cloth before the Chimney, and to get far enough off for fear of the Vapours, and that you don't perform it in any publick Place. It is an Operation of a very capricious and uncertain Nature; for I have seen a great Quantity of Saltpeter and Antimony mix'd and prepar'd together, that has made a very charming Composition: And again, when one has proceeded after the same Manner, in all Particulars, the Result has been less beautiful, and fomerimes it has altogether miscarried. Those therefore that have Occasion for it in Powder will take Care that it be of a fine Red, not such as sticks to the Top or Sides of the Vessel, which is in small, thin, brown Scales, or such as has been spoilt, which is the Reason some sell it so much cheaper than others, which must be taken Notice of.

Those that wou'd have a Saffron of Metals, or the Crocus Metallorum, fit to be taken inwardly, must make it with equal Parts of Antimony, and resin'd Saltpeter, and then reduce it to a subtil Powder, which is to be wash'd often in warm Water, as well to free it from any remaining Saltpeter, as to make it a little more emetick. The more emetick you'd have it, the more Saltpeter must be us'd; but it considerably diminishes the Quantity, and makes it a great deal the dearer, tho' this ought to be no Consideration, since, in such small Quantities it is sold at such a Rate that it amply rewards the Labour and

Expence.

the Imperial Powder, or Liver of Antimony, it becomes emetick when old, but this is according to the Preparation, or according what I have not experienc'd; and be it how to the Saltpeter that is made use of; which if it will, the New ought always to be preit be of the ordinary Sort will make it a little fer'd. darker, or upon the Liver Colour, more than if it was of the best and finest Saltpeter; and done Crackling, 'twill be a good Red enough, inclining to that of Opal, and therefore it has obtain'd the Name of Magnesia Opalina, or the Ruby of Antimony.

Some make use of the white Dross, as well for Horfes as to draw from it a Salt or fix'd Saltpeter with Water, which is a very good Medicine for Horses, and to which the Name of Polychrestum, or general Remedy is therefore given; both wash'd, and other Crocus Metallorum, is us'd in making the emetick Wine, which is done by putting the Crocus or Liver of Antimony in white Wine, and Infuling of it for twenty-four Hours.

Of Diaphoretick Antimony.

Antimony Diaphoretick, or the Calx of Antimony, is the Antimony of Poictou, and finest Saltpeter incorporated together, made into a Powder by the Means of Fire and vice of a faithful and experienc'd Physician; warm Water; which before it is quite dry is Empericks killing more than the Sword. form'd into small Troches, and so dry'd by How effectal soever a chymical Preparation Degrees and kept for Use. This Medicine is may be, aprly and duly taken, it may be alsometimes us'd in Malign Fevers, wherefore some prescribe it in the Plague and other contagious Diseases, it being a Sudorifick, and an Expeller of the Virus; tho' there are others very diffident of its Qualities, suppoling it to have no Manner of Virtue, being only a Sort of Chalk, which I will not from the same Matter, the Degrees of Fire pretend to judge of, but leave it to the Phy- only making the Difference: The Matter to be extreamly white, foft, brittle, and dles, pretty much refembling Mineral Cinna-wholly would of all Tafte or Smell, being bar, from whence it has its Name.

This Butter of Antimony is a strong Cauperfectly inf d. Some ingenious Men have cine is quite alter'd by keeping : For where- Angelick Powder, as will be feen hereafter;

One may give what Colour he pleases to as, when newly made, it is diaphoretick,

Two Sorts of Salt may be drawn from Lotions made of it; but confidering the if you add decrepitated Salt, that is, such as small Quantity that's to be obtain'd, I canhas been dry'd and half calcin'd, 'till it has not advise any one to trouble himself a-

Of the Flowers of Antimony.

The Flowers of Antimony are made in Pots put upon one another, call'd Aludels, being a Vapour rais'd by the Force of Fire, and found in the Top of them in white Powder, which may be gather'd with a Feather. Note, If you make use of an Earthen Rerort inftead of Aludels, you'll have the Flowers

The Flowers of Antimony are esteem'd good against the Epilepsy and Intermitting Fevers, the Dole is from two to fix Grains; and of the Red, being more emerick from two to four, taken with any Sort of Conferve, or Lozenges, or in Broth. And I cannot but observe, by the By, that a Man ought not to deal in chymical Medicines, without Adtogether as pernicious unseasonably pre-

Of the Butter and Cinnabar of Antimony.

The Butter and Cinnabar of Antimony arise sicians to do it; who fince they substitute for then is a Mixture of Antimony and corrosive it such Things as Men wou'd hardly believe, Sublimate put into a Retort. That which fuch as Ceruse, and the like, which ought comes over first is a transparent Oil, next an carefully to be avoided, and may make one Oil as thick as Wax, which being well careful to buy it only of faithful honest Men; wrought 'tis like white Sugar-Candy; and the for I know no certain Proof of it, unless it third Sort produc'd by the Violence and Force be that genuine Diaphoretick Antimony, ought of the Fire, is a reddish Matter in small Nee-

affur'd me, that the Quality of this Medi- ftick, but its principal Use is to make the

the Cinnabar is sudorifick, wherefore 'tis and put another in its Place with cold Wamade use of sometimes in the Small Pox, ter, you'll have a very good and beautiful from fix to fifteen Grains.

The best Butter of Antimony is very white. and perfectly like to white Sugar-Candy; Reason kept in a Bottle well stop'd.

The Cinnabar ought to be chosen in little Pieces, red, and as full as possible with those Stria, or little Needles; that which is blackish is to be rejected.

Of the Powder of Algarot, or Mercurius

Angelick Powder, so call'd, is a white Powder made with Butter of Antimony diffoly'd and thrown into warm Water, and several Times wash'd, and then dry'd, and so kept in a Glass Vial for Use.

This Powder is a very good Purge; the Dose from two to eight Grains in Broth; or any other Liquor. This Powder ought to be very white, and made with the coagulated Oil or Butter of Antimony; that is to fay, with that which was made of the Regulus, as we shall see hereafter; for when the Emetick Powder is made with the Butter, which was made of Crude Antimony, it is by was made of the Regulus.

Of Bezoar Mineral.

Bezoar Mineral is made of Butter of Antimony, prepar'd with Spirit of Nitre, and by this Means reduc'd into a white Powder, to which are attributed the same Virtues as to the Diaphoretick Antimony, which therefore is by many us'd for it, but ought to be avoided. Its Dole is from fix to twenty Grains.

Of the coagulated Oil of Antimony.

The coagulated Oil, or Butter of Antimony, is made of the Regulus of Antimony, and running Mercury:

This Oil is very corrofive, and ferves to consume fungous Flesh; 'tis of this Oil you it ought to be as dry as possible, and for that ought to make the Powder of Algarot and Bezoar Mineral.

Of the Caustick Oil of Antimony.

The Corrofive Oil of Antimony is made of Powder of Antimony, Spirit of Salt, and corrofive Oil of Vitriol; out of all which, by the Means of Fire, is drawn a whitish Liquor, to be kept for Occasion; it is of The Powder of Algarot, or the Emetick or use in carious Bones, being a strong Escharotick; also for Gangrenes, and to deterge old Ulcers.

> This Liquor is not, properly speaking, an Oil, not being at all fat. One may also draw another Liquor from Antimony, with Antimony and Sugar-Candy.

Of the Tincture of Antimony:

The Tinsture of Antimony is made of Salt of Tartar and Antimony, dissolv'd or melted together; from which, with Spirit of Wine, is drawn a red Liquor, efteem'd a very good Antiscorbutick; as also to be good against hyno Means fo white as when with that which flerick Vapours in Women, as well as the scorbutick Irch. Dose from four to twenty Drops.

> Of the Magistery and Precipitate of Antimony.

This Precipitate is made of a very fine Powder of Antimony and Aqua Regia mix'd together, and afterwards thrown into an Earthen Pan of Water, and the Powder found at the Bottom, is to be dulcified by Washing, and is properly the Sulphur of Antimony, being inflammable, like common Sulphur: Its Use is in Apoplectick and Paralytick Cases. Dose from two to twelve Grains in some convenient Vehicle. Besides this Sulphur of Antimony, there is moreover another call'd the Golden Sulphur of Antimony, Sublimate Corrofive; which, by Means of which is made of the Scoria, or Drofs of the Fire, are reduc'd into an Oil, and of the common Regulus of Antimony, withthe Confistence of that we spoke of before. out Mars; from which, being boil'd in Wa-Note, When the Oil is come over, if you en- ter, filtrated and precipitated with Vinegat, crease the Fire, and take away the Recipient, you will have at Bottom a red Powder.

which when dry'd serves to provoke to vomit. was made all of Iron, suspended in the Air : already.

2. Of the Load-Stone:

THE Load-Stone, according to fome Authors, is a black Mineral Stone, and is endu'd with furprifing Qualities; such as Directing its Poles towards the North and South, its Attracting Iron or Steel, and the Communicating its Virtue to it by the Touch. It is found in almost all Sorts of Mines, more especially in those of Copper and Iron, of whole Nature it participates. A good Load-Stone is very folid, not porous, nor very heavy, and of an homogeneous Substance. of the Colour of Water, or a shining Black, and sometimes of a Grey or obscure Blue, to have the same Declination as the ordinary inclining to Red. Observe that the Virtue Load-Stone. It were to be wish'd therefore, which the Load-Stone communicates to Steel that it cou'd be oftner met with and fought is loft when the Figure of it is alter'd, whether it be with a Hammer or one's Fingers, as may be seen with a straight or crooked ture. Mr. de Vallemont has shewn me one of Needle, after it has been touch'd, as Father Grimaldi takes Notice of in his Physicks. in attracting Iron of a great Weight. I The Load-Stone that attracts Iron very forcibly, is call'd a generous or noble Stone. The Way of keeping it is in a dry Place, wrap'd Poles are found by applying to it a common Needle; for the Pointing of the two Ends

The Dose whereof is from four to fix Grains The same Thing, and with the like Truth, in Broth or Pills. Let it not seem strange has been affirm'd of Mahomet's Temthat I enlarge not more upon the Chymical ple: It is call'd in Latin Magnes, from a Proces, fince it's hardly to be allow'd Mer- Shepherd nam'd Magnes, that happen'd to chants so to do; and seeing Messieurs Charas, discover it upon Mount Ida, by hitting upon Glacer, and Lemery, have so amply done it it with the Iron of his Sheep-crook, according to Nicander: It is also call'd Lapis Lydius, or Heraclius, because found in Heraclea a City of Magnesia, which belongs to Lydia: In French it has the Name of L'Aimant, from its Love or Attraction of Iron. It is besides call'd Lapis Herculis, because it directs to find out the Ways, over which Hercules, by Antiquity, was faid to be the prefiding Divinity: And, lastly Sideritis, from its Adhesion to Iron, which the Greeks call

Syderos.

Besides the fore-mentioned Sort of Load-Stone, the Abbot de Vallemont, in his Treatile, tells us of another, which he found upon the Top of Chartres Steeple in the Year 1691, and which he had experienc'd to attract Iron, and to direct its Poles North and South, and after amongst the Ruins of old Buildings, it certainly being of a very extraordinary Na-'em of a surprising Excellency and Force, wou'd willingly enlarge upon this Sort of Load Stone were it more common, but it is very scarce; and fince the King has had one in scarlet Cloth, or rather to preserve its presented to him, it is sought after with great Virtue, to hang it up by its Equator, with a Diligence, therewithal to adorn the Cabinets Car's Gut, that it may have its free Tenden- of the Virtuofos: However, I refer the Cucy to the South. If it chance to fall it loses rious to Mr. Vallemont's aforesaid Treatise, something of its Strength for a While: Its who has oblig'd the Publick with the Description of this Load-Stone, and explain'd how it was form'd by Nature in the forelaid Thews the Places of them. It is faid this Stone Place. There is a third Sort, but very rare taken inwardly intoxicates and renders stu- also, which is what we call White Calamin, pid; and that its Antidote, or Counter-Poi- or the White Load Stone. There is moreson, is Gold or Emral'd Stone. Matthiolus over a fourth Sort, very frequent and comtells you, that red Brass melted with some mon amongst us, being no better than a of this Stone becomes as white as Silver, af- Sort of Drofs of Iron, but what is commonter the same Manner as Copper does of a ly sold. as well because the true black Ethiogolden Colour, with Lapis Calaminaris, pick one by Reason of its great Excellency, Pliny says Dinocrates the Alexandrian began is so scarce, as that we cannot shift without to vault the Temple of Alfinoe with Load- it, especially those that go to Sea, because it-Stene, in order to have his own Statue, which always tends towards the North, and thews. Book III.

its Place is fold a worthless Sort of Marle, or white Earth, found flicking to the common Load-Stone, but eafily distinguish'd from the true White, which is of a Sort of greyish White, ponderous, and attracts Iron as forcibly as that of Ethiopia, which that which is fold for it cannot do; besides, the Cheapness sufficiently argues its being spurious; we therefore are oblig'd to content ourselves with such as are brought from divers Places, particularly from Auvergne, which we can hardly get ten Groats a Pound for; much less cou'd we be able to sell 'em at the Price of genuine Stones, which some have exchang'd for their Weight in Gold; but tho' we find much Fault with what we fell 'em, it does not follow but there are some good, though in Truth you'll scarcely meet with above ten amongst a Thousand. However, thoseof ours that can raise small Needles, or make the Filings of Iron move upon a Plate, by only passing the Stone along under-neath, without Touching it, or has Force enough to make Steel-Dust stick to, when thrown upon it, may very well ferve for any medicinal Use, and for the Emplastrum Divinum, which is its chief Use therein.

Magnes Lapis Heraclius, Lapis Syderitis, Lapis Nauticus, or the Lemery. Load-Stone, is a Compact, hard Mineral Stone, pretty heavy, and of a black or brown Colour, or obscure Blue, which is found in Iron or Copper Mines. The best is found in India and Ethiopia; but it is likewife brought from Italy, Sweden, and Germany; it has a great many excellent Properties, both for Travellers and Artists, which are too tedious to relate. The most valuable Magnet is that which attracts the greatest Weight of Iron. I have seen several Times a Load Stone no bigger than a common Apple that wou'd attract and suspend a Bar of Iron that weigh'd twenty-two Pounds: This Stone was fold for a hundred Piftols.

They make the Load-Stone one of the Ingredients in the Composition of Plaisters appropriated to Wounds that are made with a Chilimia, in English, Cadmy, Lemery, Sword, where they think some Pieces may be left behind; for they believe that the Load- there are two general Kinds; one natural

the Pilots where they are. The White Mag- draws the Iron out of the Wound, tho' all net also, being of great Virtue, is much the Virtue in the Load-Stone could never profought after, but seldom met with; and in duce this Effect: For first of all, being powder'd finely, as it ought to be, it loses all its Force of Attraction: And, secondly, being mix'd in the Plaister, tho' its Virtue shou'd remain, it wou'd not have Power to act, being confin'd by the Viscidity of the Gums and Rosins. There is a white Load-Stone. but it is very scarce; it ought to be of a greyish White, heavy and attractive. All these Stones are astringent, and stop Blood, outwardly apply'd.

> 3. Of Natural Cadmia, or Calaminare Stone.

CAdmia, or Calamine Stone, or Lapis Calaminaris, is a Mineral, where-Pomee. of there are two Sorts, grey and

The First is not unlike grey Bole, only-'tis harder; it is found in Germany and England, near the Lead Mines, and also near

The second Sort is also a Stone of a reddish Colour, interlac'd with white, hard, heavy Veins, full of round hard Grains, the Bigness of Pepper: These Stones are found in great Plenty in Berry, near Bourge and Saumur, where there are whole Quarries of them, and are of so little Value, that one may have what Quantity he will for the Digging: They may be had also in many other Places; but fince those of Berry aforesaid are as good as any, 'tis not worth While to have them brought from more distant Places.

This Stone is of some small Use in Medicine, in some galenical Compositions, for which it ought to be prepar'd upon a Porphyry, and made into Troches, with Role-Water, and is what the Apothecaries call La-

pis Calaminaris.

As for the first Sort, how genuine soever, it is of very small Use in Physick; its chiefest being to turn red Copper into yellow, which is call'd Leton, or Yellow Brafs.

Cadmia, in Arabick, Clinia, vel is a Mineral Substance, whereof Scone which is in the Plaister, attracts and and the other artificial; the Natural is metallick as Cobalt, or not metallick as Lapis land, and are of two different Sorts; the Calaminaris: The Artificial is a Kind of one good, which is pretty tender, foft and Scoria, which is separated from the Metals easie to saw or cut into Crayons; but the in the Founders Works, when they make other not worth any Thing, is hard and Leton, Pompholyx, or Tutty.

4. Of the Hematitis, er Blood Stone.

THE Lapis Hematitis, or Blood Scone, is a Mineral of a reddish Colour, hard, ponderous, with long pointed Needles, very dangerous to fuch as are prick'd by them.

This Stone is brought us from many Places, there not being any Iron Mines wherein

they are not found.

Choose as near as you can those Stones that are of the highest Colour, with fine Strie or Needles, as much like Cinnabar

as may be.

This Mineral has little Use in Medicine. Mr. Charas observes in his Pharmacopæa chymica, Page 823, that if you drive it over the Helm, in a Retort, with Sal Armoniack, you may draw Flowers of the Colour and Smell of Saffron, which is what they call the Flores Aromatici Philosophorum: And moreover you may make with it a chalibeat acid Spirit, and with Spirit of Wine a Tin-Cture and Flowers; both which have great Virtues, according to the afore-mention'd Author, to whom I refer you.

Tis said this Stone has a Sovereign Virtue to stop Blood, from whence it derives its Name of Lapis Hamatitis, or the Blood

This Stone being powder'd, as is said of the Load-Stone, enters the Composition of some galenick Medicines: Also those that work in Metals, or in quest of the Philosophers Stone, make use of this.

Goldsmiths, and those that gild in Gold, use it too, to polish their Work, whether it be in Silver, Copper, Iron, Wood, or the

There is also another Sort of Blood Stones, draw Sketches, and like to those of Spain, with this Difference, that they don't appear polish'd, like Earth.

gravelly, and will not admit of cutting.

Hamasitis, Lapis Sanguineus, or the Blood Scone, is a hard, folid, Lemery. heavy Stone, participating of Iron, dispos'd like Needles, of a reddish brown Colour, but becoming red as Blood, according as it is reduc'd to Powder; they take it from the Iron Mines. The best and most esteem'd is that of Spain, which is clear, heavy, hard and folid, in fine Shoots of a reddish brown Colour, with Streaks that are blackish without, and resembling Cinnabar within; it is very aftringent and drying, stops Blood, and is given internally, as well as externally, in fine Powder: The Dose from fifteen Grains to a Dram. There is another Sort of Blood Stone brought from England, call'd the Bastard Hematitis; it differs from the former in that it neither shoots into Needles, nor is so hard : Chuse such as is of a brownish Red, weighty; solid, and smooth; it is aftringent, and is call'd Hamatitis from alua, Blood, because being powder'd it is of the Colour of Blood, and stops Bleeding.

5. Of Spanish Emery.

E Mery of Spain is a Marcasite or stony Mineral, with swall Veins Pomet. of Gold running through it, which is found in the Mines of Peru, and elsewhere: 'Tis of much Account amongst those that seek the Philosophers Stone, because of these golden Veins that adorn it; and 'tis at this Day fo valuable and scarce, that those that have any of it may fell it for its Weight in Gold; and therefore the King of Spain has forbidden the Exportation of it out of his Kingdom, which is the Reason 'tis so very scarce to be found. This same Emery is of little or no Use in Physick, tho' Mr. Demeuve call'd Red Pencil, us'd by such as design and says it is of a corrosive and caustick Qua-

There are, besides this, two other Sorts so sparkling with Needles, but dull and un- of Emery, one whereof is reddish, and found in Copper Mines, as well in Sweden as other These Crayons are brought us from Eng- Places, and is what some sell for E-

from it, being more rough, folid, and hard, of a fine red Colour, but not vein'd with Gold.

used, especially by Armourers, Cutlers, and in short by all those that work upon Iron or to pounded Emery. It also is us'd in polish-

fions in the Mechanick Way.

feveral Countries where there are Iron Mines, and likewise from England; and there are none but the English that trouble themselves about grinding or pounding of it in Mills, which serve only for this Purpose, or to grind Stones of a like Nature; for this ordinary or common Emery is so hard, that whoever wou'd pretend to powder, or beat it in a Mortar, wou'd be apt to make Holes with the Pestle in the Mortar: And as this Mineral is made much use of, especially in Powder, that ought to be chosen which is like Pepper, pure and clean; if in Stone let it be as bright colour'd, and as free as you ean from Spar.

Emery cuts Glass as the Diamond does, but makes no Impression upon Diamonds as it does upon other precious Stones. It is faid, if melted with Lead and Iron it encreales their Weight, and hardens and makes 'em become red, which I have not experimented. Some also mix Emery with the soft pale Madagascar Gold, but it must be that of the second Sort, which comes from the Cop-

per Mines.

It is made use of also to cut and divide Marble. They affirm likewise that it becomes an impalpable Powder if put into Brandy or Spirit of Wine, which I cannot vouch for, having never try'd it; that which falls from the Lapidaries Mills, and looks no better than Mud, is by some made up into Balls, and fold to several People under the Appellation of the Putty of Emary.

Smyris Lapis, or Emery, is a Kind of Marcasite, or very hard Stone, whereof there are three Lemery. Sorts; the first and most esteem'd is call'd Spanish Emery, because it is found in the Go. 1

mery of Spain, but easily distinguishable and Silver Mines of Peru, and several other Parts of New Spain; it is reddift, mix'd with Streaks of Gold and Silver. This Kind of Emery is very scarce, for because of the The third Sort is that which is commonly Gold contain'd in it, the King of Spain has forbid the Transportation of it. The Second is smooth, and red, but has nothing of Gold Steel, there being nothing that polishes like or Silver in it; it is found in the Copper Mines. The Third is common Emery, whole ing Steel looking Glasses, several Sorts of Colour is blackish, it is got in the Iron Mines; Stones, and upon a great many other Occa- they powder or grind it in England, by certain Mills made for the Purpole, which they The common Emery is brought to us from cou'd not do in Mortars, because of the great Hardness of this Stone. This powder'd Emery is us'd to polish or clean Arms, Knives, Looking-Gloffes, &c. You must choose that which is in the finest Powder, pure and clean. All these Stones are made use of to cut and polish precious Stones, Glass and Marble, and are of no Importance in Physick, except only that they may serve to clean the Teeth. What falls from the Lapidaries, in working with this, they dry and call Putty of

6. Of the Magnesia.

Magales, Magnefia, Magne, or Magnes, is a Mineral pretty Pomet. near approaching to Antimony, only it is foster, and brittle, like Free-Stone, and not so brilliant as Antimony.

There are two Sorts of Magnesia, grey and black; the former is very scarce, and so not much in use, but the Black very much, as well by Enamellers, as Potters and Glass-Makers, who purifie and whiten their Glass, by putting in a small Quantity of it; where-

as shou'd they add too much it would be of a blue and purple Colour.

We have it from many Places, as particularly from Piedmont, where it is found in the Mines in Pieces of different Figure and Bigness; as to the Choice of it, let it be as brittle, as sparkling, but as little attended with Spar, or other extraneous Bodies as may

Monsieur Furetier affirms Magnesia to be the same Thing as Safre or Perigueur, both which I am going to treat of, and first of

Feriguent.

7. Of Perigueur.

PErigueur, or Perigueux, is a Mineral, or black Stone, like heavy black Coal, hard to be reduc'd into Powder.

Enamellers and Potters make use of it. There needs no other Choice about it than to see that it be pure, and clean from Impurities; for if there be any other Mineral mix'd among it 'twou'd spoil all, therefore they that sell it to the Workmen, must take the same Care as they do in Lead Oar.

The Perigueur which we fell at Paris is brought us from Dauphiny and England.

Lapis Petracorius, Perigord, or Lemery. Perigueux, is a Kind of Marcasite, or hard Stone, that is heavy and folid, black as Coal, difficult to reduce to Powder: It is met withal in several Mines of Dauphiny, and in England, from whence it is brought us in Pieces of different Sizes; the Enamellers and Potters use it: You ought to chuse it pure and neat; it is detersive and aftringent.

8. Of Safre.

SAfre, or Zafre, is a Mineral of a bluish or Partridge Eye Colour, which the English, Dutch, and Hamburgers, bring us from the East-Indies, and especially from Surat.

Most of the Safre we have is in a grey Powder-like Ashes, from which it so little differs in Appearance, that we are forc'd to consult such as are vers'd in its Qualities

ere we can well diftinguish.

There are two Sorts of Safre, the fine and the common; the former is in a bluish or cineritious Stone, the latter in Powder; and very often so bad, that 'tis hardly good for any Thing, and being so very weighty must needs be mix'd with Spar, the other being much lighter.

Safre is much us'd by Delf Ware and Glass-Makers, to give a blue Colour to both

the Chapter of Enamels: and lastly, with Safre, it is that the azure Colour of Glass is produc'd, as is before observ'd, and of which is made the counterfeit Saphirs.

Saphre, Safre, Zafre, or Saphire, is a Mineral whereof there are two Lemery. Kinds; one call'd Fine Saphire, and the other common: The fine Saphire is a pretty fost Stone, of a bluish Colour; the common Saphire is a greyish, heavy Powder; both Sorts come from India. The fine Saphire is us'd to give a blue Colour to Enamel, to Earthen Ware, and Glass; to make an Azure; they likewise colour counterfeit Saphires with it, whence it takes its Name.

9. Of Rusma.

R Using is a Sort of Mineral, in Colons and Fig. Colour and Figure refembling Pomet. the Drofs of Iron, found in great Plenty in Galatia, call'd at this Time Changer : This Mineral is in fuch Vogue amongst the Turks to take of Hair, that those of all Ranks use it, by which the Grand Signior has an Income of 30000 Ducats per Annum. This Depilatory is very little used in France, but I'm fure if 'twas better known 'twou'd be preferr'd to Lime and Orpiment upon that Occasion, it being stronger and more efficacious, if there be no Danger in it.

Rusma is a Mineral that is like the Drofs of Iron, both in Colour and Lemery. Figure; there is Abundance of it in Galatia; it is a Depilatory very much

us'd by the Turks.

10. Of Orpiment.

ORpine, or Orpiment, is a Mineral commonly tound amongst Cop- Pomet. per Mines in Stones of different Bigness, Colour and Figure; some being of a golden, others of a reddish, and some of a greenish Yellow, and sometimes also almost quite red; which last proceeds from the different Degrees of Heat in the Bowels of the Earth where 'tis form'd. The Mines of Sorts of Ware: 'Tis also with Safre that Copper in which this Orpiment is found are they colour calcin'd Pewter, in order to never without fome little Gold; and for that make the fa'e Stone, which I've noted in Reason those that work in them don't fail to make

The Yellow Orpine is found to be of different Colours, wherefore 'tis that the Dutch and English send it to us in such Variety of Forms and Figures, but the best and most valuable is in thick Pieces, and in handsome bright Scales, gilt, as it were, with Gold, and which eafily exfoliate, that is to fay, which without much ado are separated and divided into thin Laminæ or Scales, gliftering like Gold.

A second Requisite in the Yellow Orpine is, that it be half yellow, half red, that is full of reddish Veins; so that which is in small Stones, and of a greenish Yellow, is utterly to be rejected, being nothing but mere Earth, as well as that which is in Powder.

Orpiment is made much use of by Persons of several Professions, especially at Rouen, to dye their Wood Yellow, of which they make Combs and fell 'em for Box: Farriers use it upon several Occasions, as also Painters when it is ground; 'tis one of the greatest Poisons we have, therefore we ought to take Care to whom we sell it.

'Tis this same reddish natural Orpiment, which ought to be denominated the Sandarach of Greece, and not the following, as most Authors have written; for the red factitious Orpine is made of this, as I'm going to make appear.

Of Red Orpine, or Ratsbane.

Red Orpine, which we ordinarily call Red Arsenick, as Mr. Morin, a Physician of the Faculty of Montpellier, has affur'd me, is made of the yellow Orpiment, as it is drawn out of the Mines, by heating it in the Fire 'till it has acquir'd a red Colour; and afterwards putting it into a Crucible with Linfeed Oil, or Sallet Oil, or Nut Oil, evaporating the Oil; then adding more, and proceeding after the same Manner 'till the Orpiment becomes vitrified, and fit to be cast into Moulds of the Form of a Cake, and reduc'd to a Stone as we see it: This Procels feeming very feasible, I was willing to attempt, but could not succeed in it; for the Orpiment, instead of Red, became calcin'd and white, altogether like Plaister: But tho' I could not, yet I won't fay the Thing can't

make Separation of it after the ordinary Me- be done. Mr. Morin being a Man of too much Honour to affirm a Thing he did not certainly know to be true.

Yet however this be, Orpine or Red Arlenick ought to be chosen in thick heavy Pieces, and as high colour'd as possible.

Red Orpine is but little made use of, except when ground into a fillamot Colour by Painters.

11. Of Natural White Arfenick.

WHite Natural Arsenick is a Mineral pretty much resembling Pomet. the common or factitious White Arfenick, only it is whiter, and more resplendent, but not so scaly: This Mineral, or Natural White Arsenick, is found also in Copper Mines, and when Miners meet with it, 'tis a certain Indication to them that Copper is near; it is found generally in the Interstitia between the true Spar and fat Earth, and sometimes it is met with in separate Pieces amongst the dry Clay. This Arsenick is very little known, and little us'd.

Of the White Factitious Arlenick.

Though I have taken some Pains to discover what this White Arfenick that we fell is, yet it has not been in my Power to inform my felf, so that I am forc'd, to rest my self contented, and to fay with others, that it is a Composition of Orpiment and common Salt fublim'd together; which does not stand to Reason, since if it were so, I don't see how the Dutch cou'd posibly sell it at the Price they do; for Arsenick, in Times of Peace, at Paris, is not worth above fixteen or feventeen Shillings the Hundred, which wou'd bring Arfenick, and what 'tis made up of to a Matter of a Halfpenny a Pound: But not knowing what to determine in this Matter, I will only remark that it ought to be chosen in thick Pieces, white within and without: Most of what we have from Holland is white and rough without, and if you break it transparent like unto Glass within, which gave Occasion to the Ancients to call it Cristalline Arsenick, which is in mighty Request at this Day with some, but by others undervalued and rejected. Arlenick Vol. II.

Arfenick is of some small Use in Physick to may become one transparent Mass, such as perform some Operations, as shall be seen the Artificial Magnet ought to be. hereafter, but chiefly made use of by Dyers, and in the Country to destroy the Rats and Mice, &c.

Of the Regulus of Arlenick.

Regulus of Arfenick is made of Arfenick, Potashes, and Soap put into a Crucible, and by the Flame of a Lamp melted and cast into a great Mortar; it is much milder than the Arsenick itself. If the Dross of this Regulus is boil'd in Water, and the Liquor filtrated, by throwing Vinegar into it, a yellow Powder will be precipitated, which is call'd the Sulphur of Arfenick, and acts with more Violence than the very Arsenick itself.

Of Caustick or Corrosive Arsenick.

Corrofive Arsenick is made of Arsenick, Saltpetre and Sulphur put into a Mortar to be set on Fire, as in Preparing a Crocus; when the Noise or Detonation is over, and the Mass is to be pulveriz'd, and put anew into a Crucible to be calcin'd. If you wou'd have this Caustick Arsenick in Liquor, 'tis but on a Porphyry. placing it in a Cellar for a few Days.

But as all Preparations of Arsenick have a

of some skilful Person.

Calcin'd Arfenick may be fublim'd with Sea Salt decrepitated; and with this, as some do affirm, they counterfeit the Venetian Sublimate, which is what we call Smyrna Sublimate; but not being certain of this, I cannot avouch it for Truth, as I before

Of the Arsenical Load-Stone.

The Arfenical Magnet is made of Poitou Antimony, Sulphur, and Crystalline Arsenick powder'd together and put into a proper

Tis said this Preparation is a gentle Cauflick, and that it may be prepar'd with a great deal of Facility; it is an Ingredient in the magnetick Plaister of Angelus de Sala, describ'd in Treatises of Pharmacy by many Authors, such as Monsieur Charas.

Arsenicum, sive Arrenicum, or Arsenick, is a Mineral that is Lemery:

weighty, shining, brittle, sulphureous and caustick, of which there are three Kinds; one Yellow, one Red, and one White: The First is call'd, in Latin, Auripigmentum, or Orpiment; this is a yellow thining Stone, taken from the Copper Mines. in Pieces of different Shapes and Sizes: There are several Sorts that are dinstinguish'd by their Colours; for one is of a resplendent Gold Colour; the other of a paler Yellow; the beautifullest and most valued is in large Pieces, of a golden shining Yellow; they easily separate by little thin Scales that glitter like Gold. The reddish yellow Orpiment receives its Colour from the Subterrathe Whole sufficiently burnt and grown cold, nean Fires that calcine it, it is ting'd from the Orpin and the Realgal; both which are us'd by the Painters, after being finely ground

The second Sort of Arsenick is call'd San-One may draw a Butter, or corrofive Oil daracha Grecorum, Realgal, Reilgar, Risiof Arfenick with Sublimate. This Oil, or gallum, or Red Orpiment. Of this Arfe-Butter of Arfenick, is a very strong Caustick, nick, there are two Kinds, one Natural, and therefore proper for making an Elcar: and the other Artificial: The Natural is that which is calcin'd in the Mine by the pernitious Quality, they are to be us'd with Subterranean Fires; the Artificial, which is great Caution, and not without the Advice more common, being calcin'd by the ordinary Fire: You ought to chuse the Realgal that is in largest heaviest Pieces, shining, and of the highest Colour, it serves the Painters. This Name of Sandaracha is given to Red Orpine, because of the Resemblance it has in Colour with Minium, or Red Lead.

The third Sort of Arsenick is call'd White hinted, when treating of Sublimate Corro- Arfenick, or Simple Arfenick, by Way of Excellence, as being the strongest of all: This is a Mineral in large Pieces that are hard, heavy, brittle, very white, shining, or crystalliz'd without and within; there is the natural and the artificial Sort; the Natural is found in Copper Mines, but is scarce: the Artificial is made with equal Parts of Veffel that will bear the Fire, that the Whole Orpiment and common Salt mix'd and sub-

lim'd together. All the Kinds of Arienick and Hammers get this same Salt out of the and dangerous is the White: It does not rects the Acrimony of the Poison.

12. Of Sal Gem.

SAL Gem is a natural Salt fo call'd from its Clearness and with Flambeauxs in their Hands; being Cavern in this Mountain, which is adorn'd come to the Bottom, which was very deep, on all Sides with most admirable Congelahe was receiv'd by the Subterranean Inhabi- tions of this Salt. tants which live there with their whole Fafixes, which Dr. Perou afterwards examin- Time, but this wants Confirmation. ing by his Taste found them to be a Salt,

are corrosive Poisons, but the most active Rocks as they do Stones out of a Quarry. There were two Sorts of Salt in these Mines, usually work violently 'till half an Hour af- and in the same Veins, the one finer, beter it is taken; because the Salts that make ing more pellucid and transparent, and which the Corrolion are lock'd up, and naturally they separate from the other of less Value, fetter'd in the Sulphurs, which makes it some but which the Poles, and other Northern Time before they are at Liberty, when they People use in their Kitchins, and for their Taproduce great Pains, Inflammations in the bles; so that Dr. Perou was able to determine Guts, violent Vomitings, Convulfions, Rest- concerning the Pieces of Workmanship that leineis, a general Lois of Strength, and at his Eminence had presented him, that they last Death, if not prevented. The Reme- were of the purest acrid Taste, and the true dies proper on this Occasion are, melted Fat, Sal Gem us'd by the best Dyers. As to Oil, Butter, &c. in order to sheath the the Salt of Catalonia, hear what Mr. Tourne-Points of the Caustick Salts, and to evacu- fort, who has been upon the Spot, says also ate upward and downward: Then Milk being in a Letter to me. There are four Sorts of taken in good Quantities, sweetens and cor- Salt in the Mountains of Cardona, a pretty confiderable City in Catalonia; the first and most common is a Fossil Salt, white, and pretty much resembling Sea Salt, only not granulated, but cut out into large Quarters, as we do Stones in our Quarries. The Second is a Salt of an Iron Grey, or Slate Colour, which differs only from the Fossil in Transparency, like unto a precious Stone, that it has a little blackish Earth mix'd with which the Latins call Gemma; this Salt is it. The Third is a red Salt near the Colour found naturally in the Bowels of the Earth of Conserve of Roses, and differs from the in several Parts of Europe, principally in other in having a Mixture of Bole, or a Kind Poland and Catalonia; and fince I have not of Ruft of Iron. The Fourth is the pureft my self been upon the Spot where it is, to of all, and indeed the true Sal Gem as confirm the Truth of what I say, it may not transparent and bright as Rock Chrystal. be amils to let you see what Dr. Perou of the These several Sorts of Salts lie in Strata or Faculty of Montpellier has written to me upon Beds in this Mountain, and are very proper the Occasion, who says; That he was for any Uses of Life, and enter or penetrate in Poland in the Month of March, 1674, into the Flesh better than Sea Salt, being with his Eminence Cardinal Janson, who not so fix'd and approaching nearer the Nahaving the Curiosity to take a View of the salt Pits of Wilisca, near Cracow, had a into what Figures you please; and accord-Mind to go down into them, which he did ingly little Boxes, Beads and Croffes, and on a Herse, as they call it, made for that other the like Things are made of it; but Purpole, attended by divers of his Servants nothing comes up to the Beauty of a certain

The People hereabouts affirm, that this milies, but look extreamly pale, and was Salt grows in its respective Abodes, and the presented by them with Beads and Cruci- Holes that you empty fill again after some

Of the several Sorts of Sal Gem which I and to have the same Taste as that which the have spoken of, we deal in none but the Druggists call Sal Gemm.e: But the Cardinal best, that as has been said is in thick Pieces, is had a further Curiofity, and so was con-easily broken, clear and transparent, and for ducted to the Workmen, who with Chissels Dyers Use. 'Tis very observable of this Fire, and crackles there but very little; but Salt, call'd Sal Indum, which some believe on the other Hand eafily diffolves, being expos'd to the Air; yet it may be cleans'd from Dirt, by washing it, without Injury. Sal Gem, which some call Fossil Salt, is brought us from many Places, but in greatest Quanties from Poland. Mr. Furtiere and other Authors fay it comes from the East-Indies, and that there is a Kingdom call'd Danzal, which fignifies with them a Country of Salt, and which affords yearly, a Loading for fix Hundred Camels, which in Ethiopia is ready Money. I do not think it worth While to waste Time in controverting what Pliny and others have observ'd concerning this Salt, when they tell us that in Carrhos, a Town of Arabia, Houses are built of that Salt, and Water is us'd instead of Mortar to bind the Salt Stones, or that the Sea derives its Saltness therefrom, &c. I must not here forbear to relate that there are Vegetables of Salt produc'd in the Mine, insomuch that Mr. Tournefort has a Vegetation of Fossil Salt as white as Sugar, almost two Foot high, like a Shrub, growing out of a Root of the Sefeli (Hartwort) of Marfeilles, which without all Peradventure is one of the greatest Curiofities in all Europe.

Sal Gemmeum, Sal Fossile, or Sal Lemery. Gem, is a Mineral, white and crystalline Salt, which grows in Form of Stone, or a Rock, in several Mountains in Catalonia, Poland, Perfia, and the Indies; this Salt being broken, is shining and transparent as Chrystal. They say that certain People of the Indies, which inhabit in the Countries where it is not met withal but evaporating some Part of the Humidity, and rarely, build transparent Houses with Sal the Breezes from the Sea, which happen Gem, which they work like Stone. The after the Heats, by their Coolness condensing Tafte of Sal Gem is like that of Sea Salt, but a little more penetrating; they use it with their Meat. Out of the falt Waters of Process, only two Hours, there wou'd be no their Springs and Pits, in the French County and Lorrain, they make Sal Gem; they which they use in those Countries as we do Sea Salt. There is made by Diftillation of Sal Gem an acid Spirit, altogether like ter this Manner. Spirit of common Salt. Sal Gem is inci- Besides the ass five, attenuating, penetrating, refolving, aperitive, laxative, proper in the Colick, and to open Obstructions: They substitute in that the Sea throws up in the Summer, and

Salt, that it grows red-hot, like Iron in the the Compositions Sal Gem., or Indian to be a Kind of Mineral Salt, and others

13. Of Sea Salt.

SAL Marine, or Sea Salt, is a Crystallization made of Sea Water, perform'd by the Sun, and reduc'd into Grains of a cubick Figure, as Monsieur Des Cartes has made appear. As to its Origine, some will have it to proceed from the above-mentioned Fossil Salt, or Sal Gemma; but since I cannot decide this Affair, it may not be amiss to transcribe here what Monsieur Lemery has written concerning it,

Sea Salt is made at Rochel in the Salt Marshes, which ought to lie a little lower than the Sea, and to be of a Clay Mould to retain the Salt Water that is drawn off into 'em; fo that all Places that are contiguous to the Sea, are not fit for the Purpole.

When the Season begins to be hot, which usually happens in the Month of May, the Water that has lain in the Marshes to be preferv'd there all the Winter, must be drain'd off; then the Sluices or Dams are to be open'd to let in what Quantity of falt Water you please, which must be contriv'd to pass through many different Channels, where it is purified and becomes hot; then 'tis convey'd into plain level Places, in order for the Salt to cream. This Salt does not shoot throughly, but during the excessive Heats, the Sun and crystallizing the Salt.

But if it shou'd chance to rain during this making Salt again in fifteen Days Time, because the Marsh must be made clean, and all evaporate these Waters to make the Salt the old Water taken out, and other new let in in its Place; so that if it rains but once in all the fifteen Days there's no making Salt af-

> Besides the aforesaid Sea Sale, there is the White Salt of Normandy, which they make with Water out of a Sort of Mud or Sand

upon

upon which the Sun has shone some Time; and when the Water is sufficiently impregnated with the Salt that it will dissolve no more, which is found by the Swimming of an Egg in it, (for every Body knows that Water can be charg'd but with a determinate Quantity of Salt or Sugar) then the Water is to be strain'd or filtrated through Straw; and when it is very clear to be put on the Fire and boil'd 'till it comes to a Skin, and afterwards put into Baskets to reduce it to what we see it. The more this Salt is wrought, the whiter, pleafanter, and better Quality 'tis of; its constant Softness is besides very peculiar to it, as well as its growing the more infipid the longer 'tis kept. There are still other Sorts of Salt in France, as that of Lorrain, which is made with falt Water cast upon hot Plates of Iron; that of Franche Comté, and many more; which I forbear to speak of, not having any Commerce in them.

Of the Purification of Sea Salt.

To purifie Salt, it ought to be diffolv'd in Water, and the Dissolution filtrated through brown Paper, then the Humidity to be evaporated in an Earthen Pan, and so there will remain a very white Salt; but it will be purer and better, if inftead of evaporating, all the Humidity, Part is left to crystallize in a cool Place; for at the Bottom of the Veffel is found the finest Salt, which may be separated from its Moisture and dry'd; then ought Part of the falt Liquor to be evaporated again, and having put the Vessel into a Cellar, let it crystallize; thus must you continue to evaporate and crystallize, 'till at last all the Humidity must be evaporated because it will not shoot into Crystals any more; the Salt that is behind being fill'd with an oleaginous or bituminous Matter that hinders Crystallization. If you'd make the Salt up into Loaves like to those of Sugar, it must be put into Moulds when 'tis a little more evaporated to a Skin, and after it has lain a little to coagulate and stiffen, it must be put into a Stove to dry it perfectly. This Salt, well purified, differs not in Appearance from double refin'd Loaf Sugar.

Decrepitated Salt is a Sea Salt calcin'd by the Fire, which ferves for many Purpoles. of Spirit of Salt.

Spirit of Salt is an Ambre-colur'd Liquor drawn from dry Sea Salt, by the Affiftance of dry'd Potters Earth, a Retort and Fire. The best Spirit of Salt we have comes generally from England, and if 'tis good must be void of Flegm, that is faithfully and carefully prepar'd, of a fine yellow Amber Colour, and of a very acid and pungent Tafte. I shall not spend Time, at present, to run through all the Particularities and different Sorts of Spirit of Salt, Monfieur Lemery hath done it at large already, only I must observe of Spirit of Salt, that which is right and good is much in use in many Cases as in Hernia's, Apoplexies, Scurvy of the Teeth, Gums, &c. The Way of taking it, may be a few Drops by its felf, or in Water, or any other Vehicle almost, ad gratum acorem, for cleanfing the Teeth, mix it with clarified Honey of Roses. Those that wou'd have a dulcified Spirit of Salt, to be taken in a greater Quantity, may make it according to Bafil Valentine, by mixing Spirit of Wine, and Spirit of Salt, equal Parts, and digefting of them together in a Sand Heat for three Days.

Sal Marinum, Sal Commune, or Sea Salt, is a Salt they make from Lemery.

the Sea Water by Evaporation and Crystallization: I believe that the Origine or Rife of that Salt comes from Sal Gem. and several Reasons confirm me in this Opinion; the First is, That Sea Salt is altogether like Sal Gem, or that Salt made from the Springs in the French County, the Pits of Lorrain, and several Salt Lakes in Italy and Germany, whence Salt comes, as all the World know. The Second is, That there is no Salt whereof there is fuch Plenty as of the Sal Gem : It fills not only in Europe Abundance of Mountains of a great and vast Extent, but it is found in almost all the Mines in Egypt and the Indies; and there is no doubt but it is at the Bottom of the Sea, as well as the Earth we live upon, where we meet with Mountains, Rocks and Mines. full of Sal Gem. The Third is, That the Naturalists have at all Times observ'd, that the Waters which pass thro' the Mines of Sal Gem, and are loaded with the Salts, flow by an Infinity of Channels into the Sea.

The Fourth is, That the Sea Salt must ne- such Rapidity and Violence, that they volalittle vers'd in Chymistry, one may know Earth to imbody the acid Liquor, otherwise it wou'd always remain a fluid Salt, and never become folid. If we make a chymical Analysis of Sea Salt, one may draw from thence a great deal of acid Liquor, which being separated from the Earth can never gain again its Confistence of Salt. This Argument being clear and demonstrative, it is likewise plain, that the Sea Salt must receive its Elaboration in the Earth before it is convey'd into the Sea: But as we see no Salt so plentiful in the Earth as Sal Gem, we may well believe it is that which gives a Saltness to the Sea; besides the Salt that we now take from the Sea is entirely like it in Taste, in Quality, and in Principles.

But I shall propose some Objections made against this; they say that it is difficult to conceive that the Sea which is so large, and of fo prodigious an Extent, shou'd receive all its Saltness from Sal Gem; for the' there is

so much Water. Difficulty we apprehend of the Sal Gem's being sufficient to talt the Sea, proceeds from this, that we do not see the Quantity of Salt Mines, as we do the Extention of the Sea Water: But if we consider that the

Another Objection they bring is, that according to my Argument the Sea ought eve--ry Day to encrease in Saltness, fince it perpetually receives fresh Salt, which cannot be dispos'd of otherwise: I answer, that we cannot perceive any Augmentation of the Sea's Saltness; for if there be a great deal of Salt that is brought into it, there is likewise a great Confumption by Evaporation and the Salt, is an artificial or factitious Salt,

ceffarily be made in the Land; for if but a tilize a great Share of Salt that is received in Vapour, as may be fenfibly perceiv'd by the that fix'd Salt compos'd of an acid Earth, as falt Air we breath in, when upon the Sea, the Sea Salt is, cou'd never be evaporated, and which contributes much with the Agitaor perfected in the Sea Water; it wants the tion of the Ship towards the Provocation to Vomiting. This Salt is driven by the Winds upon the Shore, where it is useful to make the Land fertile, and by a perpetual Circulation it is brought to the Sea again.

In Normandy they make Sea Salt by Evaporating Sea Water over the Fire in great leaden Cauldrons to a Dryness; there remains a white Salt that is less piquant and less falt than that of Rochelle, because of the Evaporation, and perhaps occasion'd from some Particles of Lead that are dissolv'd in it, which has blunted its Points; this Kind of Salt loses its Strength as it increases in Age.

There is a Salt prepar'd by Crystallization at Brouage and Rochelle, besides several other Parts of the Country where there are falt Lakes. The Rochelle Salt is grey because of a little Earth that it carries along with it; it is nevertheless more penetrating, and salter than the white Normandy Salt, which is made by Evaporation, but it is not so piquant as great Quantities of Salt in the Bowels of the Sal Gem, because of the violent Motion of Earth, there does not appear enough to falt the Sea Waves which blunts its finer Points. It may be render'd white as Sugar, by dif-To answer this Objection, I say, that the solving in Water, filtrating the Dissolution, and Evaporating to a Dryness: But as in this Purification we separate it from a great deal of Earth, which made it weaker; it does not by this Means increase its Strength, but on the contrary it is less biting, because Earth is full of Sal Gem, or the like, in that the Fire has carry'd off, or blunted seve-Millions of Places, and that it discharges ral of its more subtile Points. Sea Salt conitself into the Sea perpetually, there is tains a great deal of Acid, a small Quantity no doubt but we may have Room to of Sulphur and Earth; it is incifive, penecomprehend that the Earth in all its Parts, trating, deficcative, aperitive, resolutive; contains Salt enough in it to make the Sea it is us'd in Apoplexies and Convulsions; they mix it in Baths and Suppositories, and being apply'd hot behind the Neck; it rarifies and diffipates Catarrhs.

14. Of Nitre or Saltpetre.

SAlepetre, which the Chymists call Dragon, Cerberus, or the Infernal Pomet. Motion of the Waves that are driven with drawn from several Sorts of Materials, as geons Dung. I shall not describe here the that it is either grey, white, brown, or many different Ways of making Salepetre, bluish, altogether unfit for Vitrisication, and and also because 'tis easie to see it made in made in great Quantities, and where they divide it into a Matter of half a Dozen Sorts, according as 'tis, more or less purified; but the finest and best is what will hardly Sale.

in Europe, we have it brought in large Pieces from the East-Indies, sometimes rough and unpolish'd, and at other Times as well purified and refin'd as any whatever: There are moreover other Sorts of Natural Saltpetre, fuch as is found flicking to Rocks and old Walls, in small white Crystals, and is what be fold at a cheap Rate to the Whitsters, to blanch or whiten Linnen, under the Name of White Pot-ashes, Alkali, Natrum, or Ana-

to be fold by Merchants under large Penal- End, as Mr. Lemery affures us. ties. Some will have this Natrum of Egypt to have been a natural Borax, or a Salt Saltpetre or Nitre is a Mineral Salt, drawn naturally out of the Earth in grey partly volatile, and partly fix'd,

from old Stones, whence it has its Name, and Froth of Glass Metal taken from the from Earth, from Ashes, and also from Pi. Pots and Furnaces of Glass Founders, and feeing they are largely describ'd in the Tran- fit for nothing but to throw to Sheep or Pifactions of the Royal Society at London; geons; but nothing can be more wide of Truth than this, fince the true Salt of Glass very many Places in France, and especially is still so common among us, that it's sold at the Royal Arfenal at Paris, where 'tis not above a Groat or five Pence a Pound, and never given to any Sorts of Cattle or Beaft, but us'd chiefly by Potters, and Dutch Ware-makers to prepare the Sand wherewith they whiten and varnish their Things; and dissolve in Water, which they send in again Light and Darkness are not more con-Casks to the Frontiers; and this Saltpetre trary than those two; for the Salt of Glass is may be kept almost in any Place without in Cakes or Stones, extreamly heavy like Loss or Decay, but is not at all expos'd to Marble, contracting no Moisture by the Air; whereas the Egyptian Natrum is a white Besides the Saltpetre of several Sorts made Salt in great Crystal weighty Masses, salt and nauseous to the Taste; and besides easily diffolving into Liquor, when expos'd to the Air, and is of some Use too in Medicine, being an Ingredient of the Lap. Crollii. As for Natural Saltpetre we have but very little of it, and confequently make use of the Artificial or Factitious, which ought to be made the Ancients call'd Aphronitrum. Saltpetre is choice of, good and well work'd, according made also in Egypt, with Nile Water, after to what Degree or Quality it is of; but the fame Manner as common Salt is made however, let it be always dry, and as void with us at Brouge or Rochelle; and this same as possible of Salt. The common Sort, when Saltpetre, made of the Water of the River good, must be as white, dry, and free from Nile, is that which was so common in France, Salt as may be; the Refin'd also, the whiter, about twenty Years ago, and which used to dryer and more beautiful, long and large Crystals 'tis in, the better, and more valua-

The Use of Salepetre is very confiderable, as well upon Account of the great Quantities There is nothing almost has more perplex'd employ'd in making Gun-Powder, as that the Ancients, as well as Moderns, than the Abundance of Artificers make use of it, and Natrum of Egypt, even whilft it was the that diverse chymical Preparations are made commonest Thing in the World; for at thereof. This great Consumption is the Rea-Paris, alone, was consum'd of it more than son why the Sale of it is forbidden to Gro-2000000 Pounds yearly, without reckoning cers and others; and that those in and about what the Butchers and Tanners made use of Paris that employ any of it, are forc'd (unto falt their Skins and Hides, which was the der Pain of Confiscation, and a Fine) to buy Reason it was prohibited afterwards; and it at the Arsenal; and even then are not to fince it is become so scarce, that at present 'tis use it to the Purposes of seasoning Meat, or at its Weight in Silver, and is also prohibited the like, though it be proper enough for that

Nitrum, Sal Nitrum, Sal Petra, hard Pieces; some that 'twas the volatile Salt which they make from Stones and Earth upon old Walls, Buildings, and the Urine of feveral Animals, which has lain a long Time on Cellar Floors, or on the Stones: This Salt being form'd by the Acid of the Air, which after it has penetrated and rarified the Stones or Earth, is thus fix'd and im-

Salpetre is separated by Diffolution, Filtration, and Coagulation; they powder grofly the Stones and Earth that have lain a long Time in the Air, or which are taken from old Buildings; they steep this in a great deal of hot Water, in order to dissolve the Salt: They throw this Infusion upon Ashes to make a Lixivium, or Lye; they pass and re-pass the same Liquor several Times upon the Ashes; then being clear they evaporate three or four Quarts of the Humidity over a Fire, then they set the Liquor to cool and crystallize, taking the Crystals off to dry, and then evaporate almost all the Moisture away, and cool again as before: They take off the Saltpetre that contains a great deal of lixiviate Salt, and which is almost like Sea Salt, only that the lixiviate Salt being Alcali, it changes its. Nature because the Pores are fill'd by the Acid of the Saltpetre. The Saltpetre, made by this first Purification, is call'd Common Saltpeter; the last Sort of which ought not to be mix'd with the first, because it is almost fix'd, and consequently not so good.

They purifie Common Saltpetre by diffolving it in Water, filtring the Diffolution, and evaporating the Water over a Fire, 'till there appear a small Scum upon it; then leaving it to cool, without stirring, there will shoot fine, long, white, clear, transparent Crystals; pour off, by Inclination, the Water that swims upon it, and take out the Crystals to dry, evaporating again Part of the remaining Water, and leave it to cool; new Crystals will be form'd, which dry as before; and in short evaporate the rest of the Liquor, 'till you find nothing at the Bottom but a little Salt like Sea Salt : Repeat several Times the Purification of your Saltperre after the same Manner, and every Time separate some of the fix'd Salt; the more it is purified, the finer, larger, more shining and transparent are the Crystals, freed from the fixed Salt, and difficult to melt. There is likewise a Natural Saltpetre, sticking against Walls and Rocks in little Crystals, which is

preferable to Common Saltpetre, and which the Ancients call'd Aphro-Nitrum.

The ordinary Salepetre ought to be chose well purified, in long Crystals, as hath been said, cooling upon the Tongue, and that casts out a great Flame, when thrown upon hot Coals; it is aperitive, resolutive, abates Thirst, provokes Urine, resolutive, abates Thirst, provokes Urine, resolutive, abates the Heat of the Blood, drives forth the Stone from the Kidney or Bladder: The Dose is from half a Scruple to a Dram.

Of melted Saltpetre, or Salt of Nitre.

Sale Nitri is a purified or refin'd Salepetre melted by the Fire, and put into a Skillet, and fo reduc'd into Cakes of three or four Fingers Thick-

The Salt of Nitre, made after this Manner, is very little in use, but instead of it is much us'd a Preparation call'd Crystal Mineral, which is made by casting a little of the Flowers of Brimstone upon some of the aforemention'd melted Salt petre.

Sal Nitri, or saltpetre, is fix'd with Charcoal, and faid, when fix'd, to have the same Properties as Salt of Tartar, and that a red Tincture of it may be drawn with Spirit of Wine, like that of Sal Tartari.

of Spirit of Nitre.

From any of the Sorts of Salipetre, by Means of a little dry'd Potters Clay, a Retort and Fire, is drawn a Spirit extreamly strong and violent, but very proper for all Occasions where 'tis requir'd.

Spirit of Nitre, when good, is as clear as Rock Water, and fends forth Fumes continually, if the Bottle is unftop'd. Some rafcally People fell Aqua fortis inftead of it, therefore Care muft be taken about it, but 'tis eafily diftinguish'd from Spirit of Nitre, by what I have faid before, and by the low Price they fell it at; whereas true Spirit of Nitre cannot be afforded under eight Shillings the Pound, or upwards.

We have but little Spirit of Nitre now come from Holland, either through the small Occasion we have of it, or rather through the Covetousness of Workmen that will not afford it, but chuse to make use of Aqua fortis

Ctures are neither fo good nor fo well fure it is good and genuine. wrought.

Spirit of Nitre, being a strong Corrosive, is very feldom us'd internally, wherefore 'tis in this Mixture, that it wants no Fire to make it; for as foon as those two Spirits come together, there arises as great an Ebullition and Bubbling, as if they were upon a good Fire: In performing this Operation, Care must be taken to avoid the Fumes and Vapours which are very hurtful and offenfive. When this Mixture is become clear, it may be taken a few Drops of it in any proper Vehicle, and is said to be very good in flatulent and nephritick Colicks. Sal Armoniack diffolv'd in this Spirit makes the Aqua Regia, or Royal Water, so call'd from its Capacity of dissolving Gold, the King of Metals.

Of Aqua fortis.

Aqua fortis is a Spirit drawn from Saltpetre, and German or English Vitriol calcin'd to Whiteness, by Means of some dry'd Earth or Clay, a Retort and Fire.

Aqua fortis, so call'd from its Strength, though it be not so violent as Spirit of Nitre, is very much in Use with a great many Sorts of Workmen, such as Coyners, Mint-men, Goldsmiths, Engravers, Cutlers, and Abundance of others, as well as by those that dye in Grain.

The best Aqua fortis we have comes from Holland: Not but that it can be made as good in France; but to sell it a little the cheaper, 'tis not above half deflegmated with us, and confequently not above half so strong as it shou'd be.

With Aqua fortis and Clippings or Fileings of Copper, is made a second Sort, as they call it, of Water, of a blue Colour, which Farriers make use of, or otherwise ter is given.

There's no Fear of counterfeiting Aqua fortis, or felling any other Spirit for it, there

foreis instead of it, whereby their Manufa- When this Water has no Phlegm in it to be

Of Crystal Mineral.

dulcified, or foftned, by adding as much Spirit of Wine to it; and this is observable dinum or mineralis Lapis or Sal Prunellae, is a refin'd Saltpetre melted in a clean Iron Pot, throwing a small Matter of Flowers of Sulphur into it: When it is thus in Fusion, the Saltpetre being throughly melted, and the Sulphur consum'd, let it stand a While, then take off the Soum with an Iron Spoon, and pour out the Saltpetre into an Iron Skillet, or Poringer, to make it thin, after the Manner as we see ic. We send to Holland for our best and whitest Crystal Mineral, but it being in little thick Cakes, we have but small Sale or Demand for it, since it's only fit to be fold by Weight, and to those that make use of it themselves.

Cristal Mineral ought to be chosen very white, new made, and thin; and when it is to be retail'd, let it be as dry as you can. That which is made with the pureft Saltpetre is to be prefer'd to that which is made with the common or ordinary Saltperior, and this is eafily known by its Whitenets, and keeping well. 'Tis a Mistake or believe, as an Author of late observes, that those who hawk Crystal Mineral about the Streets make it up with Alum; for 'tis impeffible to make Alum and Saltpetre unite, the Alum becoming immediately a Scum when 'tis thrown into the Saltpetre, as it does with Sugar, tho' 'tis pretended to be made use of to whiten it; fo that those that make Crystal Mineral for Cheapnels must use the common Saltpetre; for 'tis but melting it twice and it will be as white as the other, and the only Difference will be in keeping but a thort Time, which they to their Cost know that buy of those Strowlers. Care must be taken not to wrap it in Paper, which being porous, attracts Humidity, and moistens the Cristal Mineral, that which the Workers in Silver make with and renders it unfaleable; for this Commo-Phlegm of Vitriol, or Spirit of Vitriol, that dity ought not to be moift, or in Powder: is made of Aqua fortis, and to which the Wherefore, by the Experience I have had, Name of the Aqua fecunda, or second Wa- the best Assurance you can have that 'tis good, will be to have it made by your

Crystal Mineral is very much in use in being none can be afforded at a lower Price. Phytick; it has acquir'd the Name of Sal Prunelle, Pruntlle, 'tis said, from its specifick Quali- tiful, that is to say crystalliz'd, let them disty of curing Inflammations of the Throat, folve it in Water; and after having filtrated and the Quinfy, which some call Pruna, or Prunella: And according to others, from the Germans give it the Figure of a wild Plum.

Of Sal Polychrestum.

The Sal Polychrestum, so call'd from its many and great Virtues, is made of the finest Saltpetre, and Holland's Sulphur, powder'd together, and by Means of a gentle Fire wrought into a very white light Salt.

from that of all Authors that have treated of to a Mass like a Stone: But it is easy to it, who recommend a Crucible made red discover the Imposture, for as much as the pos'd of; and I believe my Method will is fold at. be prefer'd, fince with two lighted Charcoals, ing best in it. Take therefore equal Parts of nion of the World. Sulphur and fine Saltpetre, and having heatand Sulphur; and when the Detonation is Nitre. over, and the Sulphur and Saltpetre are fufficiently burnt, another Spoonful in like Manner must be thrown in, and so 'till all is calcin'd; then take the Pot off the Fire, and after it is cool break it, and therein you'll find a Sal Polychrestum, both white, light, and very saleable, and what I say stands to Reason enough, fince this Salt cannot be

and evaporated it to a Pellicle, it must be put in a Cellar, or fome other cool Place, to effential Salt, which is drawn from the Pru- shoot into Crystals; which when dry'd, nelle, or Slot, resembling Crystal Mineral; ought to be in small Plates moderately thick or because it is much made use of in inflam- and brillant, or mining like Diamonds, and matory Fevers, compar'd to a Fire, which of a clear White, and solid, that is, that are the Latins call Pruna; or lastly, because the hard to break; for that which is easily reduc'd to Powder is not well made.

This Sal Polychrestum crystallized, is preferable to the first Sort, how well soever made, being free from that ungrateful Tafte, and evil Quality, which the Sulphur, that is infeparable from the other, gives it.

In Selling of this Salt there are great Cheats and Abuses committed, instead of which those who trade in it expose to Sale This Way of making it is very different only the Saltpetre itself melted and cast inhot, by keeping a Fire about it for three or true Sal Polychrest neither cracks nor flashes four Hours: I will not fay this Process is in the Fire, but will become red hot; wherenot good, but the Impossibility there is of as the Counterfeit flames and crackles as Salt-Selling it when 'tis heavy, and of diverse petre itself, and is also to be known by its Colours, is the Reason why it can't be dis- exceeding Whiteness, and the cheap Rate it

The Rock or Crystal Sal Polychrest, that and in the Space of one Hour, a Salt may is, as it comes out of the Crucible, was be made both white, bright, and well qua- fome Years since much in Vogue in Physick, lified, also more saleable, and that costs less. but at present being out of Fashon, (as there And fince I disapprove the Ways of making is a Mode in Medicine, as well as in every the Sal Polychrestum hitherto used, it will not Thing besides) is now seldom made use of; be amils to declare the Manner of succeed- losing, as it were, its Virtues with the Opi-

This Salt has had the Appellation of fusied a Crucible, not varnish'd in the Inside, ble Sulphur or six'd Nitre given it, as Penoand plac'd it upon five or fix lighted Char- tus describes at large, and which shews it to coals, so that the Bottom be red hot, throw be no new Composition, since it has been into it a Spoonful of the Mixture of Saltpetre known a long Time by the Name of fix'd

Of the Antifebrifick Salt.

The Sal Antifebrilio, or Salt against Fevers. is made of the finest Saltpetre, Flowers of Sulphur, and distill'd Urine, all mix'd together, proceeding after the same Manner as is directed in Treatifes of Chymistry, whether made heavy, and in a Mass, but by the great the Reader may have Recourse. This Anti-Violence and Strength of the Fire. They that febrifick Salt is efteem'd an excellent Remedy wou'd be still more curious, and wou'd have for Fevers, taken at the Beginning of the a Sal Polycbrestum, purer and more beau- Fit, or upon the Return of it, from eight Grains Grains to half a Dram in any agreeable Duteb make that which they fend us under Vehicle.

Of Nitre Vitriolated.

Vitriolated Nitre is made of Salt of Nitre diffolv'd in Spirit of Vitriol, and then prepar'd; and to which is attributed the same Qualities as to the vitriolated Tartar. Note, It ought to be white, light, and in small Striæ or Needles, like Sal Saturni.

There is also a Sort of Butter prepar'd of Nitre, by the Means of Tartar; the Process whereof may be seen in Monsieur Cha-

ras's Chymistry, p. 853.

rs. Of Natural Borace.

THE Natural Borace, to which the Ancients have given the Name of Chryfocolla, or Tincal, is a Mineral Salt of the Figure of the common Sal Gem, found in the Bowels of the Earth in many Places of Persia; and at the Bottom of a Torrent, among the Mountains of Purbeth, in the Country of Radzioribron, that reaches to the Confines of the white Tartary. When this Mineral is taken out of the Earth it is expos'd to the Air, that it may contract a Sort of far reddish Rust, which nourishes and preferves it from being calcin'd, as it were by the Influence of the Weather; and when it is as it ought to be, the Perfians carry it for whence the English, Dutch, and We have it; and this is what we call Natural Borace, or Workmen imploy for the fame Uses as they do the refin'd.

We have another Sort of Natural Borace brought us, which differs only from the Former in that it is a little dryer, and of a grey Colour, which proceeds only from its English Copperas that has lain a great While

the Appellation of refin'd Borace.

The Ancients were not out when they faid there was a greenish Natural Boraco, of the Colour of a Leek, no more than Agricola, who rightly enough observes, that he had feen a Fossil Nitre, solid and hard, like a Stone, of which the Venetian Borace is made: But the same Author is very much mistaken, when he fays, that then no Borace was in use but the Factitious or Artificial, made of the Urine of Boys that drank Wine, Brass Ruft, and sometimes Nitre beaten together in a Bell-metal Mortar to the Confistence of an Oyntment; which is far from Truth, fince the Borace he means is only the fat Borace tefin'd and shot into Crystals.

Borax, Chrysocolla, Capistrum Auri, Auricolla, or Gold Flux Powder, is Lemery.

a Mineral Salt that has the Colour and Transparency of Sal Gem, but a great deal more Pungency; it is found in certain Mines of Persia, and several other Places: When they take it from the Earth they expose it to the Air, where it becomes greafy and reddiffi on its Superficies; this is that which is call'd Fat Borace. This fat hinders the Salts that they cannot be penetrated and diffolv'd, or melted by the Air; there is likewise found a grey or greenish Borace, which Colours proceed from the various Impressions, that the Air being hotter or colder, makes upon the

Salt, by opening it more or less.

The Venetians and Dutch purifie or refine the most Part to a Place call'd Amadabae, from their Borace as they do other Salts, by diffolving in Water, filtrating the Disfolution. leaving it afterwards to evaporate, and ferthe unpolith'd, rough, fat Borace, which fome tling it to crystallize. They bring us this Borace under the Name of Borace refin'd. Chuse your Borace in fine white Pieces, neat, crystalliz'd and transparent. One may, by Refining, separate from Borace a vitriolick Matter, which gives it a great deal of Sharpness; for which Reason the Refin'd Borace is much having been longer exposed to the Air, softer than the Natural, and ought to be whereby the reddish fat Substance, where- prefer'd in Medicine; it is incifive and pewith 'tis covered becomes dry, and like to the netrating, proper to open the Obstructions of the Glands of the Melentery, and dissolve above Ground. Those that have Occasion the Schirrus of the Liver and Spleen. The of one Sort or 'tother must take Care that it be Dose is from four Grains to twenty. They not mix'd with stones, or other such Resule, also use it externally to consume the Excreas it frequently happens to be. 'Tis of either scencies of Flesh. They may draw a Spirit of these Sorts of Borace the Venetians and from Borace like that of Alum, by a very ftrong

of Salt: It is call'd Chryso-colla, Gluten Auri, is taken out of its Bed or Quarry, as you Capistrum Auri, and Auri-colla, because the take other Stones, it is burnt in a Kiln made Goldsmiths use it to flux Gold withal.

Of Refin'd Borace.

As Natural Borace is found of dif-Pomet. ferent Colours, sometimes greenish, and other While yellowish, the Venetians, who were the first that brought Borace into Vogue, finding it cou'd not be well made use of with its natural Fatness and Unctuosity, consider'd of a Way of purifying of it, by dissolving it in Water; then filtrating and crystallizing it, in order to which they made use of Cotton Matches, upon which the Borace is crystalliz'd, after the fame Manner as Sugar Candy or Verdigrise does on Sticks or Splinters of Wood.

As for others that don't use Cotton, they reduce the Borace into little Stones of the Form and Figure of the Tag of a Lace or Point; but as this Sort of Borace had a greenish Cast, the Dutch has taken it to Task, and made it whiter and more vendible, and reduce it into larger Pieces, which is what

we sell at this Day.

Borace, whether it be the Venetian, or that of Holland, ought to be chosen clear and transparent, of Taste almost insipid, taking Care that it be not mix'd with English Alum, which is difficult enough to discover, if the Alum has been foak'd in Water, and then expos'd a few Days to the Air, to give it the natural rough Appearance of Borace; but this Cheat may be easily found out, if you'll put it to the Test: For first it will by no Means solder Metals, nor being put upon lighted Charcoal will it swell and heave like Borace, or is it ever altogether so white or light.

Refin'd Borace is much in Use by a great many Sorts of Workmen, and ferves as well to folder, as to melt and dissolve Metals: Some use it also in Fucus's; 'tis of some small Use too in Medicine, since 'tis an Ingredient

of the Ung. Citrinum, &c.

16. Of Alum.

Stones of different Bigness and Colour in several Parts of Europe, especially carinum, or Sugar Alum, is a Composition

strong Fire; it is aperitive, and very like Spirit in Italy, England, and in France. After Alum on purpose as you do for Lime, or the like : and when it is calcin'd, its Salt which is the Alum, is drawn out with Water, proceeding after the same Manner as in making Saltpetre. A certain Person in the World, in the Presence of a Man of Worth, maintained that Urine was made use of instead of Water in drawing this Salt; but fince his Authority was not sufficient to make him credited. I chuse rather to rest satisfied with what Matthiolus, upon Diascorides, has written of it, who having been an Eye Witness of the Fact. has given us an ample Description of it in his Book, p. 733, to which my Reader may have Recourse.

We commonly fell fix Sorts of Alum, to wit, the plumous Alum, or Earth Flax; the Roman, English, Liege, Burnt Alum, and the Sugar Alum; as for the round Liquid and Black Alum I know nothing of it.

Alumen, or Alum, is an acid mineral Salt, made from a Kind of Lemery. Stones of different Sizes and Co-

lours, which are found in the Quarries of France, Italy and England: They calcine this Stone, and then make Alum of it by Solutions, Filtrations' and Coagulations, as they make Saltpetre; there are several Sorts of it, as Roman Alum, Roch Alum, and Su-

gar'd Alum.

The Roman Alum, or that of Civita Vecchia, call'd Alumen Romanum, is a Salt in Stones of a moderate Size, that are reddish within, of an acid stiptick Taste; they use it outwardly for stopping of Blood, and inwardly in Gargarisms for Inflammations of the Throat, and to clean the Teeth: They dry it or calcine it upon the. Fire to free it from its Flegm, then it is call'd Burnt Alum; this is an Escharotick, and serves to eat away proud Flesh, dissolve Excrescencies, and open Ulcers and Chancres.

Roch Alum, White, or English Alum, call'd Alumen Rupeum, or Rock Alum, is a Salt in large great Lumps, that are clear, white, and transparent, ras Crystal, which is brought from England, this Alum has the Virtues of ALum is a Foffil Salt drawn from the former, but is not fo strong. The Dyers, &c. use it. The Alum, call'd Alumen Suc-

and Rose Water boil'd together, to the Con- Besides this Plume Alum, we begin to sell a fistence of a Paste, and form'd while hot in- certain Stone Mineral, ponderous, white, to little Cakes, like Sugar Cakes, whence it takes its Name. Alumen Catinum, or Dish Alum, because it is made in a Platter or Dish, is what we call Pot-Ashes, or the Ashes of Kali calcin'd, or some other Ashes, or Alcali Salt, made from Vegetables; they call it Catinum, because they use to dry it in a Plate or Difh.

Of Plumous Alum.

Plumous Alum, or Earth Flax, is a Pomet. Mineral found in the Negropont, which some will have to be the Stone which the Ancients call'd Lapis Amiantus; but as I am not fure of the Thing, I will content my self to say, that the Plumous Alum which we fell, is a Sort of thready Stone of diverse Colours, but most commonly of a greenish White, in Figure pretty much resembling Venice Talck, excepting only that it is not fo green nor shining; and instead of parting into Scales, this rifes in white fost Threads or Filaments, like the Feathers of a Quill, from whence comes its Name; and accordingly most Part of the Plumous or Feather Alum one meets with, is almost ever in small Fibres, and but little in Stone, proper to spin and make the perpetual Matches. This Plumous Alum, to which some have given the Name of that of Sicily, is of very little Use in Medicine, and at present it is almost of no Use. since the Secret of drawing it out into Threads, or Spinning it, has been loft: The Cloth made with this Sort of Alum when dirty, to be made clean, needed only to be thrown into the Fire, and it wou'd come out thence as white as Snow; and with this Sort of Cloth did the ancient Romans preserve the Ashes of their Emperours, and separate them from those of the aromatick Wood, wherewith their Bodies were burnt. Some People, at this Day, also make use of this Plume Alum instead of Cotton to make Matches; and to that End it ought to be in long Wicks, and as foft as possible. This Alum is a strong Corrosive, Scissile, or Feather'd Alum, is a or Escarotick; for what Part soever of the Kind of stringy Talk, like the Body it touches it causes Whelks and Bli- Feathers of a Quill, whence they call it fters, and a most intollerable Pruritus or Itch, Feather'd Alum; it is very soft to the Touch, which is to be appeas'd only, that I know of, of a white, greenish, shining Colour, is pro-

made with Roch Alum, Whites of Eggs, by anointing the Part with Oil of Olives. woolly, and in a Word, wholly like to Plumous Alum, and incombustible also, wherefore it has obtain'd the Name of Asbeston, which in Greek fignifies Incombustible, and by Corruption we call it vulgarly Albestes.

This Stone Mineral is found in many Places in France, more especially in the County of Foye in Gascoign, where there are Quarries out of which Stones of a surprising Magnitude are taken, and from which Cotton Threads may be drawn fit to make Cloth, and to endure whitning or cleanfing in the Fire, like that of Feather Alum already spoken of. And besides this Albestes, is found in France (particularly about the Pirenees in the Valley of Campan, near the Stone-Quarries, about three Leagues from Grippa) certain Plants about two Foot high, which have Stalks all as it were filver'd over, their Leaves like those of a Nettle, excepting only that they are white underneath, of a dark Green at Top, and refembling Shagreen. This white Stalk steep'd in Water, like Hemp, may be run into a long and round Sort of Flax or Tow, of which good Cloth may be made that will refift the Fire like Plumous Alum, only it will not whiten so well: And it is to be remark'd, that when this Flax is put in the Fire it immediately grows red, but black if apply'd to a Candle. Perhaps what I fay may not eafily meet with Credit; but fince I have some of it in my Possession, to shew to those who won't believe, and the Person that has collected it is still in Being, and a Man of Reputation and Fidelity, I thought it might not be amiss to advertise the Publick, that Plumous Alum, and what we call the Albestes, are not the only Druggs in Nature capable of enduring or refifting the Fire.

This incombustible Plant might be call'd Asbestos, and the Tow that comes of it Incombustible Flax, being long, large, and foft, like Flax.

Alumen Plumeum, sive Alumen

duced

duced in the Mines of Nogropone; it will any Sort of Filth as may be; also Care must neither flame, nor consume in the Fire ; some be had that it be not Liege or Meziere A-Alchymists use it for Wicks in their Lamps; lum, which is greesier and fatter than that tis call'd Scissile, because 'tis easie to break of England, and not so fit for Dyers Use, and divide.

Of Alum of Rome.

Roman Alum, which we also call Pomet. Alum of Civita Veccbia, because great Quantities are made in the Neighbourhood of that City, is a Stone Alum of a middle Size, red without, and within clear and transparent, and of a disa-

drawn being of the same.

throughout, in the Inside as well as on the the English and Liege Alum of a dark Red, but the Cheat is easily discover'd; for if you find it not as red within as without 'tis a Sign it is counterfeited; it ought to be as free of only to fuch as retail it.

Tanners, and others, that make counterfeit Pearl, but it ought to be very good for all

of 'em.

Of English Alum.

given the Name of Rock or Rock Alum, White and Glass Alum, is an Alum clear and transparent as Crystal, which is sent us from more like Paint or Plaister than any Thing England in Pieces of different Figure and Bigness; since sometimes 'tis to be met with in Lumps as big as a Man's Body, some- Escarotick to eat away proud luxuriant times clear and white as Crystal, and at other Flesh; Persons of Condition commonly wear it has been more or less purified.

As this Alum is much made use of by several Sorts of Trades, particularly by Mint-Men or Coyners, and Dyers; as also for many Preparations in Physick, as will be

and which they never make use of but for want of the true English. We had not long fince a greenish Sort of Alum, like Saltpetre, drawn from a Stone taken out of the Mines in the Neighbourhood of Soissons in Picardy; but as this Alum is of no Account, as well by Reason of its ill Looks, as because we continue ignorant of its Virtues, I shall say no more concerning it. From the English Alum is distill'd a clear and acid Water, wich we greeable styptick Taste: This Alum is of a call Alum Water, and which is us'd as an reddish Colour; the Mine from whence it is Ophthalmick for the Eyes; after the Phlegm comes over an acid Spirit, useful în Fevers, Chuse the Roman Alum that is reddish whether continual or intermitting; and also good against small Ulcers or Excoriations in Outfide, because there are some who colour the Mouth, from four to eight Drops; that which remains in the Veffel being a light white Substance or Mass, is what we call Burnt Alum: But as this Water and Spirit of Alum is in little request, those that have Ocsmall or broken Pieces as possible; which casion for Burnt Alum do not trouble themyet is no Disadvantage to those who use it, selves about distilling, but only put the Alum provided the Alum be pure and genuine, but into a Por, which they place in the Midst of a good Fire; and when the Alum is become Roman Alum is much in Use with Dyers, very light and white, they take it out and keep it for Ule.

Calcin'd or Burnt Alum ought to be light and friable, that is, easily reduc'd to Powder, so that Care must be taken that it be not such as has been pass'd through a Silk Searce or Sieve, which is put into a Bag tied English Alum, to which the Ancients have close, to make it into Stones or Lumps, but this Cheat is easily discover'd; the Counterfeit Alum, being heavy, extreamly white,

else, and of a stiptick Taste.

True Burnt Alum is efteem'd a very good Times blackish and moist: In fine, the Glass it in little Bags under their Armpits, and Alum is more or less beautiful, according as their Feet to prevent Sweating, but then it ought to be extreamly Fine.

Of Saccharine, or Sugar like Alum.

Saccharine Alum, because it resembles Sutaken Notice of hereaster; Care ought to gar, is made of Glass Alum, Rose-Water, be taken in the Choice of it, that it be white, and Whites of Eggs boil'd together 'till it clear and transparent, as dry and as free from is stiff; and this Alum so boil'd, and reduc'd into a Paste, what Figure or Form long since great Quantities of this Sort of

Composition of their Fucus's.

namely that which is in a white transparent Place. Stone, in every particular almost like the very beautiful White; but that of it which Purpole. is counterfeited is more like Plaister, not

you please may be given to it, and when it is Alum was found in the Clayey Earth of Passy.

There are others that make use of another Some make this Sugar Alum enter the Sort of Muscowy Glass, which we call Gip omposition of their Fucus's.

Or Plaister; Potashes also have obtain'd the There is moreover other Sorts of Alum, Name of Alum Catin, as is observ'd in its

Some say the Name of Alum is deriv'd Crystal Rock Alum, and to which the Name from the Latin, Lumen, which signifies of Scayolle Alum is given, or that of Mufcovy Light, because Alum gives a Lustre, or Bright-Glass, which is found in the Quarries of nels to died Colouts, and that without it Paffy, and which after it is calcin'd is of a there wou'd be no dying or colouring to any

End of the Third BOOK of MINERALS.

BOOK the Fourth, of the Second Volume.

Of BITUMENS or Sulphureous MINERALS.

The PREFACE.

HE Word Bitumen, to speak properly, signifies a fat, sulphureous, inflammable Matter, which is found of different Colours and Consistence, either within the Earth, or upon it, or Swimming upon the Face of the Waters: Of these we have several Sorts, some bard, others soft, and some liquid, like Oil. The bard Bitumens that we fell, are the Yellow Amber, Black Amber, or Jet; Jews Pitch Natural and Artificial; Pit Coal, Cannal Coal, or Black Stone, and Sulphur: The foft Sorts are Naphtha, the Bitumen of Colao, of Syrnam and Copal; The Liquid are Naphtha of Italy, and the Petroleum, or Rock Oil; of all which hereafter in their Turns.

1. Of Yellow Amber.

Pomet. | | Ellow Amber, to which the Ancients have given the Name of Succinum, or Carabe, is a Bitumen of different Colours, being either White or Yellow: This Bitumen is liquid when 'tis in its natural Place of Production, but as it comes from thence it hardens and becomes such as we see; and as it passes from its Recesses in the Earth in a State of Fluidiit is apt to carry with it what is in it's Way, which is the Reason we find many extraneous Bodies in our Amber, which also not hardening all at once, but by Degrees, a great ma- to thosy that don't know the great Use there

ny Infects stick to it and there die. Most of the Yellow Amber we have is found upon the Banks of certain small Rivers, running into the Baltick Sea, in the Ducal Druffia: It is also found upon the Sands, which have been cast up by the Winds; and is a Commodity which brings no inconfiderable Profit to the King of Prussia, for he raises above 20000 Crowns per Annum from these Places where it is found, over and above the great Charge they are at in Securing and Preserving it from others; so that it necesty, swimming upon the circulating Waters, sarily follows, that this same Yellow Amber yields a yearly Rent of more than 100000 Livers.

What I say may perhaps seem strange

is of Amber in China, and amongst the Savain Poland, and in the Neighbourhood of Venice; and the Venetians were the First that brought it into fuch Vogue and Fashion thereabout, there being few People in Lombardy, or all along the Po, but wear Amber Necklaces, believing they keep 'em from Quinzies, and other ill Effects of the Neck and Throat, to which they are very subject, by Reason of the bad Waters they are forc'd to drink in those Parts: And History informs us, that the Romans made such Account of it, that Nero caus'd great Quantiries of it to be imported; but no where is Amber more esteem'd and valu'd than in Pofome Piece, without Fault or Flaw, being there as valuable, and prefer'd even to Gold; fuch Lovers and Admirers of this Commodity are they. As for France, 'tis by no Mean's fo much in Esteem there, though 'twas not many Years ago that all People of Quality and Fashion wore Necklaces of it, but at present it's become so vulgar and common, none but Servants make Use of it. Beside the great Use of Yellow Amber for Trinckets, &c. 'tis of some Use too in Medicine, not only to powder, but to draw a Tincture, a Spirit, volatile Salt, and an Oil, and to make a Varnish with Spirit of Wine.

Amber ought to be clear and transparent, capable of attracting Straws, whence comes its Name of Carabe, which in the Perfian Language fignifies draw Straw. When it is defign'd for any Piece of Workmanship, or to powder, it shou'd be white; but when it is to undergo the Fire, it matters not of what Colour it be, provided 'tis genuine Amber; for there are a great many that fell the Copal of America for it, of which I have spoken above, but it is easily distinguish'd from it, the Copal being in Pieces of the Bigness and Figure of Gum Arabick, and the true Carabe ordinarily in great Lumps, and also most commonly in a Sort of Film or Skin, which ferves as a Kind of Matrix for it; and then again Amber burnt at the Candle fends forth an exceeding strong Smell; and moreover, as has been noted, will attract Straw, which Copal will not do. Some have affur'd me that Yellow Amber is counter-

feited with Turpentine and Cotton, or with ges, as well as in Europe; but the greatest Yelks of Eggs and Gum Arabick: But as Consumption of it is in Austria, Germany, this Sort of false Amber, wou'd be worth little or nothing, I cannot conceive how any one need fear its being disguis'd with those Druggs.

Amber is powder'd upon a Porphyry, and reduc'd into Troches, which are of some Use in Physick, particularly to restrain Spitting of Blood, and to stop Dysenteries and other Lasks. Dose from ten to thirty fix Grains in any appropriate Vehicle. Also from Powder of Amber, with Spirit of Wine, is drawn a Yellow Tincture, endow'd with a great many good Qualities, especially in apoplectick and epileptick Fits, and paralytick Cases, taken from ten Drops to a land and the lower Hungary, a pretty hand- Dram in any agreeable Liquor: Some difsolve pure fine Camphir in this Tincture to make what Monsieur Soleysel calls the Flaming Balfam, and recommends for Wounds, Bruises, or cold Humours in Horse or Man, which may be feen describ'd in his Book;

> p. 274. Karabe, Succinum, Electrum, Ambra Citrina, or Yellow Amber, is a Lemery. hard Matter, like a Stone, yellow citron, or white, of a fine, fhining, transparent Colour, that is brought from the Ducal Pruffia in Pieces of different Shapes and Sizes: This Amber is thrown by the Waves of the Baltick Sea up the Rivers of Pruffia, especially by certain Winds. They likewife find both the liquid and solid on the Banks of several little Rivers, and upon the Brooks that are about the same Sea; that which is liquid hardens in a little Time, and becomes folid as the other.

> Opinions are divided upon the Nature and Origin of Amber; the Ancients believ'd that it was a Mixture of Gum and Rofin that flow'd from Poplars, Pines, or Firs, which being confusedly carried by the Winds into the Baltick Sea, incorporated with the Salt, and was elaborated or work'd up; and then thrown by the Waves upon the Banks of the Rivers. This Notion is rejected by the modern Authors, who have all writ that Succinum, or Amber, is a Bitumen or Juice of the Earth, which the Sea has rais'd up, and the Waves thrown a Shore about the Ducal Prussia where it is form'd, and hardens after the Manner we see it in. I my self fol-Vol. II.

low'd this last Opinion in my Book of Chy- Circumstance has given Occasion to Natuby several Circumstances, I have changed my Opinion; and found that the Thoughts of the Ancients, on this Subject, were preferaon the Coast of Sweden, there grows Abundance of Poplars, Pines, and Firs, from which there flows in Summer a great Quantity of Gum and Rosin, which is partly blown into the Sea by the Winds.

In the next Place, the Substance, the Colour, and the Transparency of that resinous Gum, resembles much those of Amber; for we have Gum Copal brought us that flows from Poplars, in the Antilles Isles, and has Oil and volatile acid Salt; it stops the Flux no other Elaboration than what it receives from the Torrent of the Water in the Ri- resists Poison: The Dole is from ten Grains vers, from whence they take it, as has been to half a Dram; they likewise burn it over faid in its proper Place; and it is so like Ka- the Fire to receive the Fume of it, which rabe, that those who know it not well may checks the Violence of Rheum from the Salt that is mix'd in it, a long Fermentabesides the Mixture of the Pine with the Rosins of Poplar, &c. In the third Place the Principles that are drawn from the true Karabe by Chymistry, are likewise those that are taken from Gum Capal, or the refinous Gums.

Chuse your Amber in fine, large, hard Pieces, clear and transparent, that will attract or draw to itself Straws, and several other little light Bodies, when the Amber is rub'd in your Hand, or otherwise, and appreferable to the yellow, but the Difference is not confiderable: They use both Sorts to make Necklaces, Bracelets, and little Cabinets, with several other Nick-Nacks that are carry'd into Persia, China, Turkey, where the Natives efteem them as great Rarities. They likewise make Amber Necklaces in Austria, Gormany, in Venice, and sometimes in

In Pieces of Amber there are sometimes found Spangles, Leaves of Trees, or little Insects; as Spiders, Ants, Flies, &c. This

mistry: But as I have been convinc'd, fince ralists to enquire How these little Bodies become enclos'd in the Amber; and it appears to me that the Difficulty is easie to resolve, fince from the Opinions given, touching the ble to those of the Moderns: For first of all, Nature of Amber, it has been thought neces-Travellers know that about the Baltick Sea, fary to admit that the Substance of it was fometime liquid or fost before it harden'd; that during that Time these small Bodies adhered to it, as to Glue, and were wrap'd up in it, or rather were cover'd and enclos'd therein by the Addition of fresh Matter of the same Kind; so that when the Whole was hardned, these little Bodies remain'd wholly

embalm'd, as we now see them.

The Karabe contains in it a great deal of of the Belly, Hemorrhages, Gonorrhea, and easily be deceived, from whence it is called, Head, and Catarrhs. Karabe is a Persian False or Counterfeit Karabe. Amber, indeed, Name that fignifies draw Straw; and they is something harder, of a higher Colour, have given this Name to Amber, because it more transparent and resplendent than Gum attracts Straws, especially when it has been Copal, but these Perfections come from the a little rub'd in the Hand. The Reason of that Effect proceeds from this, That the subtion and Working it meets with in the Sea, til and infensible Particles of the Matter having been put into Motion with some Kind of Heat that follows the Friction, they emit on all Sides their Effluvia, and spatter it in the Air within their Circumference; but as they lose their Motion according to the Distance they are from their Center, they become so much weaker, and are on all Sides repell'd by the Air, and in their Return they flick by their Viscosity to a Straw, or any other light Body they meet with in their Way, and drag it along with them; the ply'd near the same. The white Karabe is same Effect happens to several other Substances, which are rub'd after the same Manner as Wax, Suet, and divers Gums; this is call'd Succinum, from Succus, because it is suppos'd to be the Juice of the Poplar, or of the Earth.

Of the Spirit and Oil of Amber.

From Amber grofly powder'd, put Pomet. into a Glass or Earthen Retort, may be drawn a reddish Spirit, and greenish fetid Oil.

The Spirit of Amber is esteem'd an excellent aperitive or deobstruent, and very good against the Scurvy, taken in any Liquor, from ten to twenty-four Drops.

As for the Oil it is chiefly in Use to allay and drive down Vapours, being put upon Silk or Cotton, and rubbing the Wrifts or Pulse, and the Nose therewith. If you'd

have this Oil of a fine clear reddish Colour, you have nothing to do but to mix with it a little Earth or Sand, and to distil it again.

Those that wou'd have a volatile Salt, or Spirit, or Oil of White Amber, may perform all the three Operations very well, with a Glass Retort, and a Sand Heat: As for the volatile Salt, if you find it not good and fine enough, you need only put it into a small Vial, or Glass Bottle, and to sublime is sometimes brought. it upon a gentle Fire, taking Care to keep it well stopt; for this is a ticklish Commodity that will evaporate and lose itself in the Air, and that which you'll find in the Retort, is of a fine shining Black, resembling the Bitumen of Judea, or Jews Pitch.

2. Of Black Amber, or Jet.

Pomet. JET, which with good Reason, may be call'd Succinum Nigrum, or Black Amber, is also a Sort of Bitumen found in the Bowels of the Earth, but sel-Beaume and Toulon; and in Ireland it is so Veins of it running through the Stones and Rocks. Some Authors are of Opinion that Fet is the Yellow Amber divested of its Oil, drawn out by the subterranean Fires, and that from thence proceeds Naptha and Petrolæum, which does not seem very repugnant to good Sense.

Fet is of a like Use with Yellow Amber for Ornaments and Decoration, but in Medicine it is only made use of for its Oil, which serves for the same Purposes as that of the other.

As to the Choice of ir, 'tis sufficient to short liv'd. be of a shining Black as the Proverb bespeaks it.

Gagates, in French Geeft, Jays or Jayet, and in English, Jet, is a Bituminous Stone, that is hard,

black and smooth, found in several Parts of Europe; as Germany, Sweden, Provence and Ireland, in the Stone Quarries among the Rocks; it yields a good deal of Oil, and a

little volatile penetrating Salt.

Some People are of Opinion that Fet is an Amber whose volatile Parts have been separated by the subterranean Fires, and become what we call Petroleum: Chuse such as is near, hard, and of a fine shining Black; it discusses, is emollient, expells Wind, and allays Vapours: The Dose from a Scruple to a Dram. The Name comes from Gaga, a River and City of Lycia, from whence Fet

2. Of Jews Pitch.

HE Jews Pitch, or Asphaltum, is a Bitumen found swimming up- Pomet. on the Waters of the Lake, where heretofore stood the Cities of Sodom and Gomorrha, and the Name Asphaltum comes from the Dead Sea, or Lacus Asphaltites, which fignifies the Lake of Trust, being so very strong, that every Thing almost swims that is thrown into it; and it is call'd Mare Mortuum, or the Dead Sea, because no Fish or dom near the Waters; it is a sulphureous other Beast can live in it, through the ex-Fosfil, very hard, and of a gliftering or tream Saltness and Bitterness, and noisome thining Black, found in feveral Places of Smell of its Waters; but in Recompence Europe, as well in Germany and Sweden, as there are great Quantities of this Bitumen in Ireland; as also in France, between St. found floating thereupon like Grease or Fat, of which the Coasters, who are Arabs, make common, that as you go along you may see very considerable Advantage; it being what they use to lay upon and besmear their Ships and Boats with, as the Northern Nations do with common Pitch: And one Thing is very remarkable, that when this Lake is very full of this Bitumen, there arifes such a Stench in the Air, that the Inhabitants thereabout are necessitated to gather it and put it a Shore, and so noisome at that Time is the Smell that all Birds that fly over it fall down dead; and this is the Reason why the People in the neighbouring Places are fo

The Bitumen of Judea, or Asphaltum, so much resembles the best Black Stockholm

Pitch, that were it not for the strong Smell strain'd to take it from thence and carry it a Afphaltum, no one could distinguish the one

from the other. The Use of this Bitumen is to make the fine shining Blacks of China. It also is of some small Use in Medicine, for that it enters the Composition of the Venice Treacle, fay, of a most beautiful, shining, polish'd Black, reflecting the Image of the Sun, and Pitch, which is what is call'd the Artificial or Factitions Piffasphaltum ; it is no difficult Matter to discover this artificial Bitumen, being of a very base Black, and a strong Smell. particularly Monsieur Furetiere, that we have no Bitumen of Judea brought us now a-Days; and that the Apothecaries, instead of it, sell a Composition which they make of Pitch, and the Oil of Petre, a Thing that don't stand to Reason, nor can I conceive Pothecaries to be such Knaves and Fools, to do any fuch Thing, fince the true Bitumen is reasonable enough in its Price; so that it wou'd have been better for these Scribblers, and all such as have undertaken to write of Druggs, without understanding them well, to have been filent; for they have made, and still do make horrid Blunders about quid pro quo, or in substituting succedaneous Druggs or Medicines, which is a Matter concerns the King and the Commonwealth.

Bitumen Judaicum, Bitumen Babylonicum, Asphaltus, is a folid, brittle, black Matter, refembling Black Pitch that is fulphureous and inflammable, and in Burning fends forth a strong disagreeable Smell: It is found swimming upon the Surface of the Lake, or Asphaltite Sea, otherwise call'd the Dead Sea, where stood, some Time ago, the Cities of Sodom and Gomorrha. This Bitumen is cast up from Time to Time in the Nature of liquid Pirch, from the Earth that lies under this Sea, and being thrown upon the Water Auvergne comes very little behind it; 'tis it swims like other fatty Bodies, and is con- made a great Traffick, being a Commodity the Sun, and the Salt that is in it.

of Pitch, and that it is not so hard as the Shore, not only because it brings them Profit, but also because the Lake being too much loaded with this Bitumen, yields a stinking; and malignant Smell, which spoils the Air, affects their Health, and thortens their Days : The Birds that fly a-cross it fall down dead, and it is call'd the Dead Sea, because of the for which Purpose it needs no other Prepara- Stench, Bitterness, and excessive Saltness of tion than to be true or genuine, that is to it; so that neither Fish or any other Creature. can live upon it. The Arabs use this Bitumen of Judea to pitch their Ships as we do of no Manner of Smell; and to fee that it common Pitch, and there was a great deal of be not adulterated, or mix'd with Black it imploy'd in the Embalming of the Ancients..

Chuse such as is clean, of a fine shining. Black, folid, and harder than Pitch, having no Smell but when it is held to the Fire; 'Tis a Mistake to believe as some Authors do, take Care it be not mix'd with Pitch, which may be known by the Smell: They use this, to make your fine shining Blacks of China; it yields a good deal of Sulphur, partly exalted, with volatile Salt and a little Earth; it fortifies and resists Putrefaction, resolves, attenuates, and cleanses cicatrizes Wounds, and is us'd externally and internally.

It is suppos'd that the Word Bitumen comes from the Greek Word mins, which fignifies a Pine, and which has been chang'd by Corruption, the w being alter'd into a B, from whence they pronounc'd it Bitumen instead of Pitumen: This Etymology is taken from the Opinion of the Ancients, that the Bitumen of Judea was a Pitch that flow'd from Pines and several other Trees about the Lake of Sodom: So were the Jews of that Opinion before; the Prophet Esdras speaking of Sodom and Gomorrha, says, that the Earth is founded upon Pitch and Heaps of Ashes.

4. Of Pit Coal.

E Arth or Pit Coal, is a Sort of Bi-tumen chiefly us'd by Farriers Pomet and other Sorts of Smiths to heat their Iron; that of England is esteem'd the best, though there are some that say ours of dens'd by little and little thro' the Heat of much us'd in France; the best is pretended to be most void of Sulphur, and consequently The Inhabitants of the Country are con- that which will keep Fire longest. Some will have it that this Sort of Coal is the Refult of Petroleum made in the Bowels of the Earth, which is probable enough, fince out of it may be drawn an Oil altogether like the Oil of Petre.

It is call'd in Greek, Lithanthrax; in Latin, Carbo Petra, or Lemery. Carbo Fossilis; and in English, Coal; and is distinguish'd into Sea Coal and Pit Coal, only upon the Account of that which is generally carried by Sea; all Coal being properly speaking Pit Coal, which is chiefly found in England, Scotland, Ireland, Germany, Sc. and is an impure Sulphur, mix'd with many gross and earthy Parts, and a volatile Salt, being strong, friable, and black: In Distillation it yields an acid Spirit, reddish Oil, black Balsam, and volatile Salt, like Amber; which is but too well known to the Chymists of this Age, who adulterate most of the Preparations of their Shops, that are either chargeable or troublesome, and tedious, in the Operation: The Virtues of this are in a lower Degree subservient to those of Amber, as well internally as externally apply'd.

5. Of Terra Ampelites, or Cannal Coal.

Pomet. TErra Ampelites, or Cannal Coal, is a dry Bitumen impregnated with Sulphur, that easily splits into Scales, and is reduc'd to Powder, found in the Entrails of the Earth in many Places of France: We have two Sorts of it, the one foft, the other hard, which comes from near Alenson, in the Provence of Maine; the Propriety of the Quarry whence 'ris taken, belongs to a Curate of a Parish, who makes seven or eight hundred Livers per Annum of it; the Quarry is a Matter of forty or fifty Foot deep; and though this is a Merchandise of low Price, yet they make a good Trade of it; there hardly being any Artificers in Stone or Wood, but what make use of it more or less. That which is good must be lately taken from the Mine, for when 'tis stale and old it resolves into a Powder and becomes a Saltpetre; it ought to be light, neither too foft nor too hard; some have given it the Name of Vine Earth, because it kills or drives a-

way the Worms from the Leaves of Vines; also it is call'd *Pharmacitis*, because 'tis us'd in Medicine.

Ampelitis, five Pharmacitis, the Black Stone, or Medicinal Earth, Lemery, is a very bituminous Stone, black

as 3 eet, splitting into Scales, and is easily reduc'd to Powder; they get it from a Quarry near Alenson in France: There are two Sorts of it, one fost and the other hard; it affords Abundance of Sulphur and Salt: It is proper to kill Worins apply'd to the Belly, and to dye the Hair Black: Some use it as an Antidote to destroy all Vermine, apply'd to the Vine Roots.

6. Of Sulphur Vivum, or Native Sulphur.

SUlphur Vive is an Earth or Clay Pomes. eafily inflammable, that in burning emits a bituminous Smell, brought us from Cicily and other Places. As to the Choice of Live Sulphur, so call'd, because it is sold and made use of just as it comes out of the Earth; let it be tender or soft, friable or easy to be broken, smooth, shining without as well as within, and of a Sort of Mouse Dun, or Grey, as free from Gravel and Dust as possible.

This Sort of Sulphur is very little in Use, unless it be for some particular Operations, and certain galenical Compositions, but pretry much us'd by Vintners, who mix it with Sugar, Anis, Cinnamon, Nutmeg, Cloves, &c. to sweeten and preserve their Vessels.

Some Apothecaries pound it with Scammony, which they call Prepar'd Scammony, or Diagrydium, and so make a better Market of it than their Neighbours, who take Pains to prepare it as it ought to be.

7. Of Mineral Sulphur.

Supplur Mineral is a hard earthy Bitumen, of a yellow Colour, and bright enough, of a ferid fulphureous Smell, easie to be melted or burnt, and is more or less beautiful, as 'tis more or less mixt with Impurities it meets with in the Mine.

Vesuvius; as to the Choice of it, though inbright and thining, and as little as may be is, will fell dearer than the former, notwithmix'd with Earth or other Filch.

Its Uses and Qualities are no other than like those of the common factitious Brim-Stone that is made of this, which we are going to speak of under the next Head.

Of Sulphur in Rolls, or Common Brimstone.

The common factitious Sulphur Pomet. or Brimstone, is made of yellow Mineral Sulphur melted, and, by the cast into the Form in which we see it.

This Sulphur is more or less beautiful, and endow'd with good Qualities, according to where 'tis made; for that of Holland is much better, and more beautiful than that of Vewhence it comes, and where 'tis made: The Gentlemen of the Royal Arfenal, indeed, manufacture great Quantities, but make use of it all themselves.

In your Choice of this factitious Sulphur, or Brimstone, take such as comes from Holland, in large thick Rolls, of a golden Yellow, light, easie to break, and being held close, or grasp'd in the Hand, and apply'd to the Ear, crackles and makes a Noise, and at length breaks to Pieces, and being broken, appears as it were in Crystals, which are the true Marks of that of Holland and Venice; none of which were to be found in the Marfeilles Sulpbur, it being little better than a grey Sort of Earth, 'till of late, fince we cou'd have none from Holland, they have learnt the Art of well-working it there; and I think it has been our own Fault that we have fuff r'd other Nations so long to run away with the Profit of Refining it as it ought to be: The Reason has been that no Merquire into the Manner of doing it; only a no hing of the Mystery of Trade, have set the Fume or Vapours of Sulphur. Pen to Paper concerning it, who acquit themselves but indifferently, when they tell in the Body of many Prescripts, as to per-

This Mineral Sulphur comes from Mount us that ordinary Sulphur in Rolls, or Common Brimstone, is made of Sulphur Vive; for that deed 'tis made but very little Use of, let it wou'd be to turn Pewter into Lead, since the be in handsome Lumps, of a golden Yellow, latter, tho' natural, is more valuable, that standing it be wrought; however, I wou'd not be thought to discourage Authors, few Books being so ill written, but may contribute, in some Measure, to the Advancemen of Knowledge; only in general it may be faid, that the Subject one is going to treat of, ought to be understood before we begin

There are several other artificial Sulphurs, as I have already taken Notice of, proceeding only from the different Preparations of Affistance of right Train Oil and Moulds, different Countries; so the ordinary Sulphur of Marseilles is in small Rolls, the green Sulphur of the same Place, both in large and small Rolls, which Sort is esteem'd the the Degree of its Purification, and the Places best for Distillation, as shall be shewn here-

There are a great many other natural Sulnice, or that of Marfeilles, the three Places phurs, besides the two Sorts we ordinarily make use of, but they are not very common with us, because they come a great Way off, and we have 'em not in large Quantities.

The first and most desirable is that of Quitto, of a golden Colour, and an Amber Figure, found in great Abundance near the Gold Mines.

A fecond Sort is that of Nicaragua, which is in a yellowish grey Mass, altogether like That that was found, some Years since, in that Bank of Earth which was levell'd by St. Martin's Gate.

A third Sort is of Swifferland, refembling that of Quieto; and many more there are which I shall forbear to mention, there being

no Demand for 'em.

The Use of Sulphur in Rolls, or Common Brimstone, is well known to all, and that it is one of the chief Ingredients of Gun-Powder; for which Reason, those that sell great Quantities of it to the Arsenal, for that Purpose, ought to discover it when 'tis chants have undertaken to write of it, or en- faulty, that what is made of it may not fall short of Expectation. This Sulphur is us'd tew Phylicians, and some Apothecaries and too in whitning Gawzes, Stockings, Go. for others that have travell'd, but understood nothing blanches any Thing of Woollen like

It is also of some Use in Medicine, as well

form a great many Operations in Chymistry, as will be seen hereafter.

It is besides a Specifick in the Itch; but Care ought to be us'd in the Exhibition of it, for it now and then produces very ill Symproms, nay even Death itself sometimes.

Sulphur, or Brimstone, is brought Lemery. to us from the Caribee Islands of usually is of a whitish Yellow, made up of the West Indies, and is found also in Italy, Bohemia, Sicilia, and Melos, being generated of the Fat and Rosin of the Earth, filled with an acid and vitriolick Spirit: It is twofold, viz. Natural and Artificial, the Roll Sulphur is the latter; but if you wou'd make right Oil of Sulphur, you must chuse the Natural, or Sulphur Vivum; but if that cannot be got, you must make use of the other, which yet you are to try, whether it eafily inflames and burns constantly, if not 'tis not good, but is impure and adulterated with Rosin, and such like Matters, whereby it becomes harder to kindle, and is eafily extinguish'd, being Caballine Sulphur.

It is a noble Mineral even before Preparation, and is generally appropriated to the Breast and Lungs, and to cure all Diseases which disturb the same; it kills Worms, opens, cuts, refifts Putrefaction and Poison, provokes Swear, and is given in Coughs, Colds, Phthisicks, Wheelings, Shortness of Breath, &c, Outwardly apply'd, it re-folves all hard Tumours, cures corroding Tetters, Scabs, Itch, Scurf, Morphew, &c. drys up old Sores and Ulcers. Tho' this being finely ground, is sometimes us'd internally, yet the Flowers are more commonly us'd, as being a Sulphur open'd and purified from all Filth, whereby it is fitter for all internal as well as external Uses.

Of Flowers of Sulphur.

Flowers of Sulphur are prepar'd of Pomet. Sulphur calcin'd in Pots made for the Purpose, and then reduc'd into Flocome from Holland; but of late, fince they

fuch now; and the best that we have at prefent is from Marfeilles, which tho' very good. does not come near that I've mention'd of Holland, that us'd to be in an extraordinary fine impalpable Powder, of a bright golden Yellow, and of an agreeable Taste.

The third Sort is that of Roan, which Sulphur rais'd by a violent Fire, and Meal or Wheat Flower, or fine powder'd Starch added to it, which is all a Cheat; in like Manner is that which is generally hawk'd about, made of the Dust or Dross of Holland Sulphur beaten up, and then pass'd thro' a very fine Taffety or Silk Searce; but the Cheat is easily discover'd by the low Price this spurious Stuff is sold at.

Upon the Whole, Holland's Flowers of Sulphur are preferable to any other; next to them those of Marseilles, and these are the only two that ought to be given internally.

The true Flowers of Sulphur are a Natural Balfam for the Luugs, and endow'd with fo many good Qualities, that 'twou'd be endless to pretend to recount 'em'all.

Flowers of Sulphur are also made after another Manner, to wir, by adding to it fixt Saltpetre, or Sal Polychrestum, which is the Method we use to make it white; but there being little Demand for this Sort, it's seldom made, though it be a very good Medicine, and as agreeable to take as the above-men-

To make Flowers of Sulphur: Take Sulphur grofly powder'd, Lemery. half a Pound ; put it into a Glass al a Body, or Cucurbit; place it in a small open Fire, and cover it with another Glass Body, or earthen Cucurbit; turn the Bottom upwards, so as that the Neck of the Lower may enter into the Neck of the Upper; change the upper Cucurbit every half Hour, fitting another in its Place; adding likewise new or fresh Sulphur; the elevated Flowers Iweep together with a Hare's Foor, and conwers as we see: The best and most beautiful tinue to do thus so long 'till you have what you desire? These Flowers are good against have been made at Marseilles, Roan and Paris, Diseases of the Lungs; Dose ten or twelve we have little thence. The true Holland's Grains in any fit Syrup, Pulp, or Electuary; Flowers of Sulphur were wont to be brought outwardly you may mix them with Hog's us in Cakes that were light, foft, friable, Lard, for Scurf, Tetters, and the Irch.; but and rather white than yellow; but through be cautious of using it to Infants, especially Avarice and the present Wars, there is no anoint not any where upon the Trunk of the

Sulphur be sublim'd with Sal Polychrest you will have white Flowers.

Of Salt of Sulphur.

The Salt of Sulphur is made feve-Pomet. veral Ways, but the best and easiest is according to Monsieur Charas's Pharmacopaia, p. 887, whether the Reader may have Recourse. This Salt is compos'd of Saltpetre refin'd, and Spirit of Sulphur, made in a Retort with a Sand Heat, into a white Mass, which has many good Qualities; or it may be made with the Sal Polychreft, or otherwise, as may be seen in Abundance of Chymical Processes which treat of it.

Salt of Sulphur is much in Use to temper and allay the Heat of Fevers : The Dose is not adjusted, but 'tis sufficient to give it in any common Drink to an agreeable Aci-

What Form one pleases may be given to this Salt; some will have it in a Mass, others in Crystals; some granulated, and others in Powder, or finally in Rolls; which last is a curious Method, and known but by few:

Of Magistery, or Milk of Sulphur.

The Magistery, or Milk, as 'tis Pomet. call'd, of Sulphur, is made of the Flowers of Sulphur, and Salt of Tartar boil'd in Water; and then adding distill'd Vinegar to precipitate a Powder, which when dry'd will be white, and is esteem'd very good for the Lungs, and for Afthmaticks.

If half a Pound of Flowers of Sulphur be mix'd with a Pound Lemery. and an half of Salt of Tartar, or Pot-Athes, and be boil'd in two Gallons of Water for fix or feven Hours, the Sulphur will be all dissolv'd, and the Liquor become red: This filtred and mix'd by little and little with Spirit of Vinegar, or some other Acid, presently becomes white like Milk; let it stand to settle, and a white Powder will precipitate, which being edulcorated by five or fix Times washing in hot Water, and dry'd, is the Lac Sulphuris, which is better Annifeed, and the best Flowers of Sulphur

Body, and especially the Belly. If your than the Flowers for all the Diseases aforenam'd, given from fix Grains to fifteen : This is powerful against all Manner of Catarrhs and Fluxes of Rheum from the Head, that fall upon the Throat and Lungs; for it confumes and dries up all ferous and watry Superfluities.

Of Spirit of Sulphur.

Spirit of Sulphur is a Liquor drawn from the green Sulphur, by the Af- Pomet. fistance of Fire and certain Vessels, as Meffieurs Charas, Lemery, &c. teach us and as it is of different Colours, according as 'tis more or less divested of its Phlegm, so it has two different Names affign'd it: That which is just as it comes out of the Vessels is call'd Spirit of Sulphur, which when good ought to be as clear as Rock Water, and of an agreeable Acidity, and which put upon blue Paper will turn it red ; but the best and furest Proof is to deal with honest Men

The fecond Sort, to which improperly the Appellation of Oil of Sulphur has been given, is such as has been separated from its Phlegm or superfluous Humidity, and has a bright Yellow, or golden Colour, and is fo very firong that it can't be endur'd upon the

Tongue.

Some Hawkers counterfeit this Oil of Sulphur by a Mixture of Vinegar, and Spirit, or rather Phlegm, of Vitriol, cr with Vinegar and Water, adding a few Drops of Aqua fortis, and sell it to Abundance of People, especially to Vintners, who use a great Quantity of it upon Occasion.

Great Vertues are attributed to the Spirit and Oil of Sulphur in Fevers and pulmonary

Cases especially.

Not long fince it has been discover'd, that Spirit, or rather the Oil of Sulphur, is the only Thing to give Luftre to the Peridot, as will be seen where we treat of precious Stones, and also to give Flowers that never fading or immortal Colour as we call it.

Of Balsam of Sulphur.

Balfam of Sulphur is made two Ways; First, With the green or express'd Oil of melted or diffolv'd together, which is call'd harden'd in the Bowels of the Barth, which Balfam of Sulphur annifated, and has great makes it dry and brittle. Qualities given to it, as will be seen hereafter.

Monfieur Charas says in his Book, p. 470, that some are of Opinion this Balsam is in Quality but little behind the Natural Balfam, or Balm of Gilead, because it heats and dries moderately, and refifts Corruption or Putrefaction; it therefore is a celebrated Medicine in pectoral Cases, being very beneficial in Coughs, Afthma's, Pleurisies, and Ulcers of the Lungs: It is good also against Weaknesses and Indigestions of the Stomach, restores the Appetite, expells Wind, eases all Sorts of Colicks: 'Tis faid to be good also against the Plague, and all epidemical Diseases, venereal Affects, continual or intermitting Fevers, and the Epilepsie; it may be taken internally in any agreeable Liquor, from three to ten or twelve Drops; the Stomach or Navel may be annointed therewith in any Illness of the former, or in Colicks,

The distill'd or chymical Oil of Anniseed might be made use of for this Composition, were it not that in the Operation it is apt to evaporate and fly off, do what you can, more than the green or express'd Oil.

The fecond Way or Method of making it is with Oil of Walnuts cold drawn, Flowers of Sulphur, Salt of Tartar, and White Wine mix'd together, which by Affistance of the Fire is made into a Balfam very good to digeft, discuss, or resolve any crude Fluxion impacted in any Part of the Body, made use of by Way of Unction; it is also the Basis of the Emp. Sulphuris.

Some use Oil of Sweet Almonds, White Poppy-Seed and Turpentine instead of Oil of Walnuts in the Composition of this Balsam, in which every one may do as seems best to him.

Some again add to this Balfam, Myrrh, Aloes, Saffron, and the like.

Besides the Sulphurs afore-mention'd, we have a Sort of Earth or yellow Stone, which Mount Æina casts forth, call'd by us Naples Yellow, which Painters make use of: But this Sort of Earth is scarce enough amongst us. Note, The Marks of its Goodness are, that it be fandy, and of as high a Colour as may be. This Earth is nothing but a Sulphur

You may make a Balfam of Sulphur in a small Time, by taking to Lemery. one Part of Flowers of Sulphur four or five Times as much good Oil of Turpentine.

Oil Olive, or the like, and boiling them in a Pipkin, so big, as it may be but half full, 'till the Flowers are perfectly dissolv'd, into a Blood-red Balsam; let the Fire be pretty quick, yet not too quick, and continually stir it all the While it is a making 'till it is cold, otherwise the Flowers will be apt to coagulate into a Mass, and so you will have no Balfam: It is good against Coughs, Colds, Afthma's, Consumptions, &c. outwardly apply'd, and is taken inwardly from four Drops to twenty.

8. Of Naphtha.

VAphtha is a Bitumen or Slime found in many Places of Europe, Pomet. and the Name Maltha has been given first of all to a Sort of Bitumen found near Comagene in Syria: And Pliny tells us that this Bitumen is fo glutinous that it flicks to whatsoever it touches, from whence comes its Names of Maltha; and accordingly he relates, that at the Siege of Samozata, which Lucullus undertook, it was of great Advan-tage to those in the Town; for that as soon as it touch'd any of the Soldiers it set them on Fire in fuch Sort as could not be extinguisht but by throwing Earth upon them, being of the Nature of other Bitumens, which the more you cast Water upon them the more they blaze. There is another Sort of Bitumen found near Ragusa, which has the Smell of, and serves for the same Purposes as common Pitch, and therefore has the Name of Maltha, or Natural Pissasphaltum, or Earth-Pitch bestow'd upon it : But these two Sorts being unknown to us, and we having none of 'em in France, I shall content myfelf to speak of that of Auvergne only.

The Bitumen then of Auvergne is a Sort of Pitch of a disagreeable Smell enough, found between Clermont, Montferrat and Rion, in a Place call'd Pege-well, where it is in such Abundance, that it makes its Way out of the Earth, and causes a great deal of

Uneafiness to Passengers, who when they Wine, the next yellow, afterwards green; tread on it can hardly draw up their Feet 'tis and in short, that which is at the other opfo flicking, and who by Reason thereof are very often forc'd to leave their Shoes behind 'Tis this same samous Drugg the Hucksters dry, and then sell to Grocers and ignorant Appothecaries and others, instead of the true Bitumen of Judea, tho' it be eafily distinguishable from it by its strong Smell, whereas the true Judea Bitumen is almost without any Smell at all; 'tis from its factid ly it will be uppermost: as also by Rea-Smell, some, as to Asa fatida, have given it the son of its strong piercing Smell, coming near Name of Stercus Diaboli, or Devil's Dung. that of Sulphur, which renders it extreamly There are also many other Sorts of Bitu- volatile, it is easy to catch Fire, which men that come from the Bowels of the may serve as a Precaution to those that sell it, Earth; but we having no Commerce in, as having none of 'em, I shall not trouble my felf to speak any Thing about them.

9. Of Naphtha of Italy.

THE Naphtha of Italy is an Oil of different Colours, flowing from a Rock fituate in the Valley of Montfestin, in the Dutchy of Modena; and this Oil has been known to us but a few Years fince by the Means of one Roque Foura, a Native and an Inhabitant of the Village call'd Prat, near have by me, and had the following Ac- be seen in the next Chapter.

from a Rock which is upon a Mountain, men, of different Colours, very inwhether it is convey'd by Subterranean Veins, flammable, which is brought from feveral and it is gather'd into Oil of different Co- Parts; as the Place where ancient Babylon lours, by Means of certain Canals and Cop- stood, and about Ragusa; likewise from a per Cauldrons which separate it; or to certain Lake or Marsh of Samosata, and dispeak more intilligibly, the Duke of Sara and vers other Parts; but we have no other Naphfteem'd; that next to it clear and red like prevalent against Palsies, Weakness, and Re-

posite Side of the Rock, quite off from the Sun, is black.

White Naphtha, which we commonly call Oil of Petre, or White Rock Oil, because of its Whiteness, Clearness, and Beauty, is immiscible with any Thing in the World besides, being lighter than whatfoever can be put to it; and consequentto be as careful of it as of Gun-Pouder.

The great Virtues of this Oil is the Reafon why I will not fay any Thing of it here, but rather refer my Reader to what the afore-nam'd Roque Foura has printed concerning it. As for the red, yellow, or green Naphtha, they are so little in Use, that we don't see any of 'em at all: And moreover another Reason may be, that the Italians mix 'em with the black Oil before they fend it to us, and this makes the Oil of Petre, which we have thence, inflead of being black and thick as it comes out of the Rock, to be red, transparent, and yellowish, and mode-Brianson, in the Upper Dauphine, of whom rately sulphureous in its Smell; and as this I bought the different Sorts of Naphtha that I Oil is pretty dear some counterfeit it, as will

Naphtha, Pissasphaltum Naturale, The Italian, or Montfestin Naphtha, comes is a Kind of soft or liquid Bitu- Lemery.

Darce, and the Marquels of Arpia in Modena, tha brought but what comes from France and to whom the aforefaid Rock belongs, have Italy: The last of which is a Sort of Petrocaus'd Trenches, and Copper Canals, or leum, or clear Oil, that is sometimes white, Pipes to be made, which are purposely sometimes red, sometimes yellow, sometimes plac'd to receive the Oil as it distills from green, and sometimes black; it flows from the Rock, by Means of which it falls into a Rock situate on a Mountain near Mount the Cauldrons or Coppers, from whence it is Festin, in the Dutchy of Modena; the White taken or gather'd for Use. It is observable, is most valued. The Bitumens, call'd Naphthat this Oil changes Colour according as it tha, are almost all Sulphur or Oil mix'd is nearer or farther off from the direct Light with some acid and volatile Salt; they are of the Sun; fo that which is of the sunny Side incifive, penetrating, deterfive, digeftive, is white, and clear as Water, and most e- vulnerary, and strengthening, and so are laxation of the Nerves; outwardly apply'd, Colours; as Black, Red, White and Yel-Turpentine or vinous Clyster, prevail against Dyseniery and Diarrhea: Petroleum is by many us'd instead thereof.

10. Of the Black Oil of Petre, or Oil of

THE Petroleum, or Black Oil of Gabian, is a liquid Bitumen that comes from the Bowels of the Earth, and by subterranean Channels is thrown upon the Waters of a small River near a Village call'd Gabian, in the Bishoprick of Bezier, in Languedoc. Formerly this Oil was so plentiful and common, that 'twas made but little Account of; for considerable Quantities might be gather'd of it daily : but now Mondays only are set apart for that Purpose; and the Place where it is, is enclos'd with a Wall, and guarded by a Man. And I have been told at Gabian, that the Bishop makes a great Penny of it, which notwithstanding is not of such Account as 'twas heretofore.

This Oil ought to be of a middle Confiftence, of a ftrong ftinking Smell, and of

Colour black.

In the Choice of it, one must see to it that it be'nt Oil of Turpentine thicken'd and colour'd with Tar and black Pitch: The best Characteristick I can give whereby to know it, is to buy it of honest reputable Merchants, that won't do an ill Thing and fell one for another; and not to expect it at under Price.

The Black Oil of Petre of Italy, or of Gabian, is somewhat of Use in Physick, but chiefly employ'd by Farriers, and those that

make artificial Fire-Works.

There are moreover other Sorts of Oil of Petre, or Bitumens, found in many Parts of the World, as those of Colao, of Sirnam pretend to fay any Thing concerning them.

Lemery. Rock Oil, is a Kind of Naphtha, that it is in small square Cakes of the Thickfrom the Clefts of several Rocks, Stones very black jet Colour, whereas Holland's and Quarries, in many Parts of Italy, Sici- Ink is in flat Lumps, and of a footy musty ly, and Languedoc: It is brought of several Black.

they relieve the Tooth-ach, and dissolved in a low. The black Petroleum, usually brought us from a Village in Languedoc, call'd Gabian, and from thence Oil of Gabian, is of a very unpleasant Smell. All the Kinds of Petroleum are incifive, penetrating, resolutive, at-tenuating, resist Poison, destroy Worms, expel Wind, strengthen the Nerves; some Drops may be taken inwardly and outwardly; the Joynts, Emunctories and Navel,

may be rub'd with it.

It is hot and dry, and of thin Parts, and is of admirable Use against Aches and Pains. and all cold Diftempers of the Muscles, Nerves and Joynts; it is prevalent against Gour, Palfies, Cramps, Convulsions, Apoplexy, Megrim, and other cold Diseases of the Head and Brain; anointed upon the Region of the Abdomen, Bladder, Reins, Spleen or Womb, it gives Ease to all Pains and other Disorders of those Parts, discusses Swellings, &c. It is faid to cure ulcerated Kibes and Chilblains, to help Bruises, and heal old Sores; and is of fingular Use against the Rheumatism, or running Gout. Some say that that which comes out of India is the best and pleasantest, and is thought to have all the Virtues of the Naphtha aforego-

11. Of China, or Indian Ink.

"Hina Ink is a hard solid Paste, which, according to some Authors, Pomet. the Chinese make of a black bitu-

minous Earth, which they powder, and with Gum Dragon form into a Paste, which they after lay upon little Sticks, and having mark'd it with some China Character, they dry and fell it as we have it. Others will maintain that it is made of a Black produc'd from the Smoak or Fume of Oil of Olives burnt; but as it is impossible I shou'd be able and Copal; but fince we have none of 'em, to determine of which 'tis compos'd, I will nor any Trade or Dealing in em, I'll not only remark in the Choice of it, that the true genuine Ink of China is to be prefer'd to that Petroleum, five Oleum Petra, or of Holland, and is distinguishable from it, in or bituminous Liquor that flows ness and Length of one's Finger, and of a

7. 2

China.

China, or Indian Ink, serves for Geogra- shining is the best. If when it is set on Fire, being a portable Ink.

12. Of Gun-Powder.

ON-Powder is a Composition of Saltpetre, Sulphur and Coal Sieve, or any other Instrument full of Holes; is made into Corns big or little, or what Size you please: But I will not enlarge upon this Business'tis not, it being too hazardous.

Sal Pyrium, Sal Bombardicum, Lemery: and Pulvis Pyrius and Bombardicus, or Gun-Powder, was a Thing wholly unknown to the ancient Greeks and Arabians, and therefore they have no Name for it. It is made in many Parts of the World, but most plentifully in France and England, and is compos'd of Saltpetre, Sul-

phur, and Wood-coal.

You are to chuse good and pure Nitre, with fair and large Crystals or Shootings; if it be not good you must purifie it as we into a Kettle, which fet upon a Fur-

phical Charts: In short, 'tis very useful for it freely burns all away, leaving little or no all fuch as mark or take Sketches in Black, refident Matter, it is a Sign it is good : So also if you press it between two Iron Plates. that are hot enough to make it run, if in running it appears yellow, and that which remains be of a reddish Colour, you may conclude it excellent and fit for your Purpole; but if it be impure and foul, Powder-makers, prepare it after this Manner. Melt your Sulmade with Willow, or any other white light phur in a large Iron Ladle or Pot, over a Wood, which by Means of Vinegar, and a very gentle Fire of Coles well kindled, but not flaming, then fcum off all that which rifeth on the Top, and swims upon the Sulphur; presently after take it from the Fire, Occasion, not being throughly acquainted with and strain it through a double Linnen Cloth, the Manner of making it best; and by the letting it pass at Leisure; so will the strain-Bye, I wou'd not advise any Merchant to ed Sulphur be pure, (the gross filthy Matter deal in this Commodity, whose profes'd remaining behind in the Cloth,) which powder finely.

You ought also to chuse Charcoal, large, clear, free from Knots, well burnt, and cleaving; but if you be where it's not to be had, you must make it after this Manner. Cut down your Wood when it is full of Sap, and is apt to peel, viz. in May or June, and chiefly Hasle, or Ash, or Juniper, &c. which cut into Lengths of two or three Foot long, of the Bigness of ordinary Billets, taking away the Rind and superfluous Branches; being very dry, make them into Bundles, and in a plain even Place, fit for that Purpose, have before taught: This purified Niere, put set them upright one by another, and one upon another, cover them with Earth or Turf nace with a moderate Fire, which gradually encrease to such a Degree of Heat, 'till it be-Holes; then kindle the Fire, and when it is gins to smoak and evaporate, lose its Humi- well lighted, and all in a red burning Heat, dity, and grow very white; keep continual- being reduced into burning Coals, stop up ly stirring it with a Wooden or Iron Ladle, every Vent-Hole for the Fire, close, with for fear it should return to its pristin Form, moistened Earth, so that there be not the whereby its Greafinels will be taken away. least breathing Place, the Fire being thus ex-Then pour so much Water into the Kettle tinguished, the Coals will be pure and whole as will cover the Nitre; and when it is dif- without any Ashes, and in twenty-four Hours folv'd, and is brought to the Confistence of a after you may take them out for Use. But thick Liquor, then with a Wooden Stick or for a present and small Occasion do thus: Ladle, keep continually flirring it without Cut the Wood into small Pieces, dry them any Intermission, 'till all its Humidity is a- well, put them into a large earthen Pot, cogain evaporated, and it be reduced to a most verit all over the Top well with Clay, then dry, white Meal. make a good Fire round the Pot gentle as You ought also to chuse the purest and best first, but so as it may be made red hot; co-Sulphur; that which is in very great large vering it also all over with Fire, leaving it Lumps, clear, perfectly yellow, not very so for the Space of an Hour or more in that hard nor compact, but porous, nor too much strongest Hear; let the Por cool of itself, and

duce into a fine Powder.

Of these Ingredients the Country People in the Ukrain in Poland, and the Cossacks make it with their own Hands thus. They put their Proportions of Nitre, Sulphur and Charcoal, (being all in fine Powder) all together in an earthen Pot, upon which they put fair Water, then they boil upon the Fire 'till all is evaporated, and the Matter becomes thick like Paste, and taking it from the Fire they make it yet granulated after the following Manner. dryer in the Sun, or in a Stove, or the like, 'till it is fit to corn; then they granulate it by passing it through a Hair Sieve, making the Grains of what Bignels they please, and this serves their rural Occasions, as well as if it had been made by the most skilful Artist in the World.

But in order to the truly Knowing and Making of Gnn-powder, it is fit that you should first know the Kinds thereof, and then the different Strength of each: The Kinds are threefold, 1. Canon Powder, 2. Musquer Powder, 3. Piftol Powder, and of each of these there are two several Kinds, viz. a stronger and a weaker, all which Differences arises only from the various and differing Proportions of the above enumerated three Ingredients. The exact Limitations of which we come now immediately to declare.

	Cannon.	Mulquat.	Piftol.	
Nitre. Sulphur. Coal.		1.8		Strong.
Nitre. Sulphur. Coal.	2.0		1.0	Weak.

The Preparations declared, I. Cannon Powder, I. The Stronger. To every 100th of Saltpetre, there is Sulphur 25th. Charcole 25th 2. The Weaker. To every 100th of Saltpetre, Sulphur 20th. Charcoal 24th. II. Mulguet Powder. 1. Stronger. To Saltpetre 100ts. Sulphur 18ts. make Powder to be kept close from the Air. Charcoal 20ts. 2. The Weaker. To Saltpetre
100ts. Sulphur 15ts. Charcole 18ts. III. Pistol Pistol Powder, if you would have it stronger or Pawder. 1. The Stronger. To Saltpeter 100th. Sulphur 12th, Coal 15th. 2. The Weaker. To Times while it is in the Mortar, and mortlen

then take out the Coals for Use, which re- Saltpeter 100th. Sulphur 10th. Charcoal 18th. as in the Table annexed, which are the Numbers, and in the same Proportion, but in lesser Quantities or Dicimals.

The Way of making it. All these Ingredients are to be finely powdered, and they are to be moistened with fair Water or Vinegar, or Spirit of Wine, or Water and Spirit of Wine mixt together, or Urine, which is usual; then let all be well beaten together for the Space of twenty four Hours at least, and then

You must prepare a Sieve with a Bottom of thick Parchment made full of round Holes, and the former beaten Mass must before hand be moistened with the following Liquor. Re Spirit of Wine 3xx. Spirit of Wine Vinegar, 3xij. Spirit of Nitre, 3iiij. Spirit of Sal Armoniack, 3ij. Camphir, 3j. dissolved in Spirit of Wine, mix together for the Purpose aforesaid. Or in stead thereof, if all these Things cannot be had with this. B. Brandy 3xl. Champhir 3j. min and dissolve; the Mass being made up into Balls as large as Eggs, which put into the Sieve, and with them a wooden Ball, which fo move up and down about the Seve, that it may break the Balls of Powder, and make it pass through the little Holes into Corns.

But in making of vast Quantities for a natural Use, to do it all by the Hand would be amost tedious and slavish Work, and therefore Kings and the fupream Rulers of Countries have provided Mills for that very Purpose, by Help of which they can do more in one Day, than a Man can in an hundred.

You may make Powder of various Colours, if you fo please, but then you must leave out the Charcoal, and put in as much for it of another Thing of the Colour you intend, which may be as apt to kindle or take Fire as Charcole is; but for real Service, whether for War or Hunting, &c. the black Powder is much to be prefer'd; yet for Satisfaction's fake, we will give you the Directions for making white Powder.

White Powder. Take Saltpeter, 10th. Sul-phur, tbj. Saw-dust of Elder, or the like Wood, dried and powdered fine, this mix and make Powder by the former Directions. Or thus: B. Nitre 10th. Sulphur, this. dried and finely powdered, Sam-dust thij. mix and make Powder. Or Thus: B. Nitre 10th Sulphur, thij. Rotten Wood dried and powdered, thij. Salt of Tartar 311j. mix and

more violent, you ought to ftir it up feveral

for twenty-four Hours, as aforesaid.

Moreover you ought to know, that Powder when it is corned, is of much greater Force and Power than when in Dust or Meal; and from hence it is concluded that the larger Grains are stronger than the smal-Ier, and for that Reason Canon Powder is granulated larger than Musket, Musket than Pistol; and therefore being put into Ord-nance, Muskets, or Pistols; it ought not to be forced or beaten so home, or hard into the Piece, as to bruise the Grains, lest it thereby loses much of its Strength.

To know the Goodness of Gun-Powder. It is tried three Ways, by Sight, by Touch, and by Fire. First by Sight; if it be too black, it is too moift, or has too much Charcoal in it; so also if rubb'd upon white Paper, it blacks it more than good Powder does. If it be of a Kind of Azure Colour, or a little obscure, something bordering upon red, it is

a Sign of good Powder. Secondly by Touching. If in crushing of it with your Fingers Ends the Grains eafily break and turn to Dust, without feeling hard,

it with Water diftill'd from Orange or Le- some Grains feel harder than the rest, mon Peels in an Alembick, and then beaten or as it were dent your Finger's End, or very hardly yield to preffing, the Sulphur is not well mixt with the Nitre, and the Powder naught.

Thirdly by Burning. Lay little Heaps of Powder three Inches or more asunder upon white Paper, and Fire one of them; if it only fires and burns all away, and that suddenly, almost imperceptible, without firing the others, and makes a small thundering Noise, and a white clear Smoak rising in the Air, almost like a Circle, the Powder is very good. But if it leaves black Marks behind it, it has too much Coal in it, or is not well burnt. If it leaves a Greafiness behind it, the Sulphur or Nitre, are not well cleansed or ordered as they should be. And if two or three Corns of Powder be laid upon a Paper an Inch asunder one from another, and you put Fire to one of them, and they all fire at once, leaving no Sign behind but a white smoaky Colour in the Place, and the Paper not touch'd, the Powder is good; so also if fired in your Hand, and it burns it not; but if black Knots which burn downwards in the Place where Proof was made, remain afit has too much Coal in it. If in preffing un- ter firing, it is not ftrong enough, but wants der your Fingers upon a smooth hard Board, Nitre.

End of the Fourth BOOK of BITUMENS.

BOOK the Fifth, of the Second Volume.

Of STONES.

The PREFACE.

mean by the Word Stone, a solid and hard Body that will not melt in the Fire, or be extended under the Hammer, form'd in the Earth by Course of Time, being a Kind of Mineral. I shall divide Stones, the Subject of this Book, into two Classes; to wit, into precious and common Stones. By precious Stones I understand those that are dear, either because that they are scarce, or that they come from far distant Parts, and such as are very hard, small, and sparkling. And by the Common, I mean such as are of little Value : I shall begin with the Hyacinth, or Jacinth, as being the Finest of all those we deal in, and of which we make the most Use. And by the Way, the Reader may be pleas'd to take Notice, That I shall only speak of such as we deal in, not meddling with the fine Stones the Jewellers and Lapidaries trade in, as knowing little or nothing of them.

1. Of the Hyacinth, or Jacinth.

HE Hyacinth that is us'd in Medicine is a Stone of which there are three Kinds, to wit, the foft milky Hyacinth, which is a little Stone of the Size and Figure of a moderate Grain of Salt, very plyable, and of they ought to be entirely rejected, being nothe Colour of Milk, from whence it derives irs Name. The Second is a reddish Stone without, and within cut naturally like a Dia- about the Bigness of a Pin's Head, of a

mond Point, that is found very frequently in Poland, Bohemia, Silesia and Italy: In this same Stone or Facinth, you will often meet with White mix'd with red, or yellow sometimes with other Colours; but as these different Sorts are not us'd by any but Apothecaries and Hucksters, who chiefly confider the Cheapness, or don't know 'em from others, thing else but a Sort of Sand; as also another Sort of falle Hyacinths, that are little Stones

in several Parts of France, but chiefly in Au- Honey, Bole, Myrrh, and some Leaf Copper vergne, which are what we call Jargons, or for this Confection, and sometimes they alfalse Hyacinths: Wherefore those that wou'd low you a little Bastard Sassron; therefore have the Facinth for the Confection that the best Way is never to meddle with this bears its Name, and is after describ'd, must use no other than the milky Hyacinth, as being the true Oriental, and fit for medicinal Use, it requiring no other Preparation than nus: The Facinah is a precious Stone, Lemery. to be ground to an Impalpable Powder.

Of the Confection of Hyacinth.

The Confection of Hyacinth is a liquid and cordial Electuary made up of Hyacinth, red Coral, Bole from the Levant, seal'd Earth, of each four Ounces and half; Grains of ental are to be prefer'd to those of Silefia and Kermes, Dittany of Crete, Tormentil Root, Bobemia, which are known by their Bigness. Citron Seed, Saffron, Myrrh, Provins Roses, their Beauty, and their Hardness; for the the three Sanders, the Bone of a Stag's Heart, Oriental exceed not the Size of a Pea, and Shavings of Hartshorn and Ivory, Sorrel and are finer and more Brillant than the European Purssain Seed, of each ten Drams and two Kind. There are others much about the Scruples; of Saphire, Emerald Topaz, Fine same Size, of a yellowish Colour, almost Pearl, Raw Rilk, Gold and Silver Leaf, of like Amber; some are white partaking of each five Drams and a Scruple; Musk Red or Yellow, and several other Colours; and Ambergrile, of each two Scruples; others are small as Pins-Heads, of a bright powder all the Druggs, and grind the Stores Red : This last Kind is found in several Parts on a Porphyry, then make em into an E- of France, and particularly in Auvergne, all lectuary with Syrup of Lemons. Those the Sorts are very cordial and restorative: who desire to know further of it let 'em con- Dose half a Scruple. fult Monfieurs Charas or Bauderon's Difpensarories. The Confection of Hyacinth ought to be of a good Confistence, fresh and faithfully prepar'd of a reddish Colour upon the Yellow: All those who prepare this Medicine ought not to put in Musk and Ambergrife, except by the Direction of the Phyfician; because the greatest Part that is us'd is by the Women, and that is very improper for the Sex, especially in any hysterical Case. This Confection made as it ought, is much preferib'd because of its good Qualities in fortifying the Heart, refisting of Poison, &c. and it is of the same Nature with Confection of Alkermes, being much us'd in the Lionnois, Provence and Languedoc, where you meet with few People without a Pot of this Confection, or of Alkermes or Treacle about them, of which they take a small Quantity every Morning. The Dearnels of this Medicine, and the Demand for it, is the fors of it, who do it to grofly and scanda- and all Manner of Fluxes of Blood; as like-

finning Red, that are found very commonly loufly, that they afford you no better than except you have it from an honest and reputable Dealer.

Hyacinthus, five Lapis Hyacinthiof which there a great many Sorts that differ in Size and Colour; for some are small as a Grain of Salt, of a white Colour, and this Kind is call'd the foft milky Hyacinth, which is the oriental, others are as big as Peas, very hard, of a red Colour, enclining to the Yellow, bright and resplendent. The Ori-

2. Of the Topaz Stone.

HE Topazes that are us'd in 1 Phylick are Stones of different Pomet. Magnitude, very heavy and transparent, altogether refembling the Muscowy Glass found in the Plaister of Mont Martre: This Stone is found in the East and West Indies, Bohemia, and Germany. The Topaz needs no other Preparation for Medicine than to be ground with Rofe-Water on a Marble like Hyacinth and other precious Stones.

The true Topaz of the Ancients, which was afterwards call'd a Chrysolite, is a transparent Gem of a diluted green Colour, that feems to have some Yellowness, or a Gold Colour in it, very glorious; fome will not have it to be properly the Topaz, but rather the Chrysolite, or Mother of the Emerald : It Reason that you have a thousand Sophistica- is reported to be good against Hemorrhages,

that the File cannot touch it. It has been a Stone of great Esteem and Value, not only for its own Glory and Brightness, but for its facred Use recorded in Scripture: It is sometimes counterfeited with double Crystals or diaphanous Stones, with a proper green Foil interpos'd, and being thus fet in Inclosures, with a like Foil underneath, the Cheat will be hard to discover.

Topazius, Chrysolithus, Chrysopa-Lemery, tius, the Topaz is a transparent precious Stone, of a greenish Cast, mix'd with a little Yellow, shooting forth golden Rays: There are two Sorts of it, the Oriental and Occidental; the first Sort is harder, finer, and more valued: We have 'em brought from Arabia, Æthiopia, and about the Red Sea; it's said they grow among the Alabaster, and some pretend em to be the Mother of the Emerald, because these two Stones are fomething like one another in their Colour. The second Sort are found in Bohemia, and are larger than the Eastern Kind, but not so beautiful.

3. Of Emeralds.

THE Emerald is a greenish Stone that is found in different Parts of the World; as Ethiopia, Egypt, Persia, and both the Indies. The highest priz'd, or most valued Emeralds, are those call'd the Prime Emeralds, in that they are commonly pure and neat, that is to say, of a fine beautiful Green, inclining to the Blue, without Rock or Marble. There is some Grounds or Appearance that Emeralds are found in Iron Mines, because I have seen where the Iron has stuck to them. It is by some affirm'd that the Emerald takes its green Colour in the Mine, according to the Degree of its Perfections, as Fruits ripen upon the Trees, the Truth of it.

Some Authors have made twelve Kinds of Emeralds, as the Scythian, the Bactryan, Ægyptian, Cyprian, Attick, Ethiopick, Medick, Calcedonian, Samian, Sicilian, Laconick, and Cyprian, or Chalco-smaragdus, to which of late has been added a Thirteenth, call'd the Smaragdites, or Bastard Emerald. This

wise to stop Bleeding: This Gem is so hard Stone has been of great Esteem, not only for its Glory, but the Use it was apply'd to, being set in the Breast-Plate of Judgment.

The Smaragdo - Prasinus, Smaragdites, or Bastard Emerald, is a transparent green Gem of a mixt Beauty, between a Prasinus and an Emerald; being compar'd with the Praffinus, it has the Greennels of Grais, without Yellowness; but being compar'd with the Emerald, it has a yellowish Greenness, which is not in the Emerald; it is seldom perfectly transparent because of some Clouds in it, and is of two Kinds; first, the Bohemian, which is almost transparent; and, 2dly, the American, which is but half transparent: This Stone is faid to be diuretick, expels Gravel, hinders the Breeding of the Stone, and eales Pains of the Kidnies and the Gout-

Smaragdus, Prasinus, or the Emerald, is a fine, green, precious

Stone that is diaphanous, shining, resplendent, but moderately hard; there are two Kinds, one oriental, and the other oc-cidental. The first Sort is harder, finer, and more esteem'd; it represents by its agreeable Colour and Pleasantness the Verdure of the Field, and fills the Eye with a fudden glaring Light; it is brought from the East Indies. The fecond Sort may be distinguish'd into two Kinds, Peruvian and European; the Peruvian shews a very fine, pleasant, green Colour, but does not shoot its Rays like the Oriental, and is sometimes fill'd with little greenish Clouds; they are plentiful in Peru, and pretty large: The European Sort is not so hard or resplendent, but the least valued of all; they are found in Cyprus, Great Britain, and several other Places: The Western are generally much larger than those of the East, for they are sometimes met with as big as the Palm of a Man's Hand: Both Kinds are proper to stop the Flux of the Belly and Hemorrhages, to sweeten the too acrid Humours, being finely powder'd and which I cannot confirm, having never feen taken inwardly: The Dose from fix Grains to half a Dram.

4. Of Saphirs.

W E sell two Sorts of Saphirs, to wir, the reddish and the blackish; the Saphirs are little Stones of the Size of a Pin's Head, extreamly hard, and the Use in Physick, for which Reason I shall therefore difficult to bruise or pound. The say nothing of them, nor of a great many Red, and very folid.

Lemery. Saphir, is a fine, precious, brillispecially such as come from the East-Indies; as Calecut, Pegu, Bisnager and Zeilan; they are found likewise in several Parts of the Western World, as on the Borders of Bohemia and Silefia, but they are neither fo perfect nor fine as the Oriental, but have their Luftre defac'd or funk by the Fire.

They use in Physick the Fragments or Pieces which the Lapidaries cut off from the Saphirs, which are much about the Size of large Pins-Heads, reddish or blackish, but the Red are prefer'd because the Black are full of Iron Stone, by which we may perceive they have some Analogy to the Load-Stone, for they will be attracted like Iron: There are a great many Virtues attributed to the Saphirs which they have not; as the fortifying the Heart and other noble Parts, purifying the Blood; relifting of Poylon; their true Properties are to stop Fluxes, sweeten the Blood, and dry up Ulcers of the Eyes.

5. Of the Ruby.

THE Rubies are likewise little reddish Stones that are brought red-hot Coal of Fire. us from the East-Indies, and are of very lit-

reddish, which are usually of the Colour of others which we might sell had they attain'd Wine, ought to be imploy'd for physical Uses; to their Perfection, the Names of which are for as to the blackish Saphirs they are rather subjoyn'd, referring the Reader to a Book like Rust of Iron than a precious Stone, and entitled, The Perfect or Compleat JEWELLER, turn the Confection of Hyacinth black when or, The History of Precious Scones; com-added thereto. Some substitute in the Room pos'd by Anselmus Boetius de Boot, Physician of the red Oriental Saphirs, those little to the Emperor Rodolph the Second; or to the Stones, very common in Holland, that we Indian Mercury, made by Rosnel, who has call Vermeil, or small Granats, which beware made a very large Treatise thereof. The of, tho' it is not difficult to diffinguish 'em, precious Stones we have, besides those menbecause the true Saphirs are of a very fine, tion'd before, are the Diamonds of Alenson, clear, transparent Red, which are contrary the Amethysts of Auvergne and Cartagena, to the Granats, that are of a very deep the Girafole, the Peridot, the Agats, the Berils, the Sardius, the Coralines, the Granats, Saphirus vel Sapphirus, or the the Malaquits, and several Sorts of Marble, Florence Stones, &c. And as I have feen the ant, diaphanous, resplendent Stone, vast Difference betwixt the Stones that we of which there are two Sorts, one call'd the fell, and the fine Stones the Lapidaries use, Male, the other the Female: The Males are I advise all those that would make the Confe-of a pale Blue, or a Water of the Diamond Etion of Hyacinth, to take rather the Chippings Lustre; these last are call'd White or Water of the fine Stones, than fancy he can buy Saphirs, they are less enquired after than better at the Druggists: Besides, I am of the Blue: The Female Saphirs are of a Opinion with those who allow no other Virdeep Blue, these are more valuable, and e- tue in all the precious Stones, than to absorb Acids.

Rubinus, Carbunculus, Pyropus, Anthrax, the Ruby or Carbuncle is a Lemery. fine, diaphanous, precious Stone

that is very hard, and refifts the File; it is resplendent, and of a Colour as red as Blood, mix'd with a little Tincture of blue: There are several Kinds of it, but the finest, hardest, and most valuable, is that from Zeilan in the Indies: Stones that are of a Flesh Colour, they are whitish at first, and grow reddish as they approach to Perfection: There are some likewise in Gambaya and Bifnaga, but these are not so fine.

There is affign'd to the Ruby the Virtue of refisting Poyson, strengthening the Vitals, driving away Melancholy, restoring of lost Strength; but we know by Experience it has no other Quality than that of an Alcali Powder, that iweetens the Sharpness of the Humours, and breaks their Points, and confequently stops the Flux of the Belly : Dose from half a Scruple to two Scruples; 'tis call'd Rubinus from its red Colour, and Carbunculus from its Reflexion, looking like a

6. Of Lapis Lazuli, or the Azure Stone.

THE Azure Stone, which is most commonly call'd Lapis Lazuli, and by some Lapis Cyaneus, and Lapis Stellatus, is a heavy Stone of a Sky Blue, sometimes full of Rock Stone, and most frequently streak'd with Veins of Copper, which the Ancients, and some Moderns, believ'd to be Gold: The greatest Part of the Stone that we have comes from Persia and the East-Indies; and some affirm that it is usually found in Gold Mines, and that it is the Marchasite of that Metal: However it is certain that this Stone is got out if a Quarry as other Stones are here, which is the Reason we have it of all Sizes; the Lapis Lazuli to be perfect and fit for Making the Ultra-marine, which is the chief Use it is put to, except the fine Works made of it; ought to be heavy, of a deep Blue, like fine Indigo, with as few Copper or Sulphureous Veins as possible, and take Care it be not appear of a deeper Blue; but the Cheat is not hard to discover, because it ought to be of as fine a Blue-within as without; likewise refuse such as is full of Stones, and the pretended Veins of Gold; so that when it is burnt to make Oltra-marine it will flink exshows that it proceeds from Copper, and not from Gold.

There is an Error some People are guilty this Stone, when fine, will encrease its Weight in the Fire: This is certain, that the finer this Stone is it will lose the less in the Fire: and that there is some of it that loses fo little that 'tis not worth speaking of; but fomething; fo far is it from being encreas'd in Weight: You ought to put the Stone into the Fire to see if it be good, for if so it will not change its Colour for being heated hot. The Choice of this Stone is quite otherwise than has been described by others, who Ultra-marine is, properly speak-fay that that which is full of yellowish ing, a Precipitate made from Lapis Pomet. or golden Veins ought to be most valued, Lazuli; [as you have it describ'd

those who know what Use they design it for namely, to make Ultra-marine, wherein you must beware of the greenish Stone, very common in France, which is found about Toulon, or that it be not a counterfeit Stone, made up of Tin and Saphre, as has been observ'd. This Stone is of some small Use in Medicine, because it is put into several galenical Compositions, as Confection of Alkermes, &c. There are Authors who attribute great Virtues to this Stone, and amongst others Monsieur Demeuve, to whom the Reader may have Recourse; and there are several others who say that Lapis Lazuli, and the Armenian Stone, are almost alike, which will be found to be falle, as you will fee in the next Chapter.

Lapis Lazuli, Lapis Cyaneus, Lapis Caruleus, or the Azure Stone, is Lemery. of different Sizes and Figures, being opaque, heavy, and of a blue Colour, intermix'd with Streaks of Gold and Copper; it is found in Quarries in the East-Indies, and in Persia, and some say in the Gold Mines; its Use is chiefly to make Ultrarub'd with Oil Olive, in order to make it marine of, for which Purpole chufe the cleanest, weightiest, of the highest Colour, and best Blue; it contains a great deal of Sulphur and Salt. To make Ultra-marine, they calcine this Stone, and grind it fine on a Porphyry, and mix it up in a Paste made of fat Pitch, Wax, and Oil; then they wash treamly, having a fulphureous Smell, which this Paste well to separate the blue Part which precipitates to the Bottom in a very beautiful Powder; they pour off the Water leafurely, and dry this Powder, which is for of in believing, as some have pretended, that the Painters Use. Lapis Lazuli prepar'd purges melancholy Humours, fortifies the Heart, and is us'd in the Confection of Alkermes: The Dose from half a Scruple to a Dram. There is found near Toulon in France, Germany, and several other Parts of Europe, let it be never so good it will always lose a false or bastard Lapis Lazuli, that is greenish and thicker, which is imploy'd for common Uses.

Of Ultra-marine.

which I maintain to be false, since the more it by Lemery above] and some say it took its is so, the less it is esteem'd, especially by Name of Ultra-marine, from being made

beyond the Seas, the first of the Kind com- paration given them; the finest Sort ought ing from Cyprus; but others will have it that to be very dry, fine, and of a high Cothe Name was given it, because this Blue is lour. much more beautiful than that of the Sea. Wlera-marine was made in England by one Stone is of different Shapes and Sizes, of the East-India Company there. You but most commonly round, uneven, rough, is abundantly more beautiful than the Last.

7: Of the Armenian Stone.

Pomet. This is a little Stone of the Size of a Buller, of a greenish Blue without and within, adorn'd with small white gliftering Sparks, rifing beyond its Surface, like Spar or small Diamond Sparks. They attribute great Virtues to this Stone, as that it is good to cure the Falling Sickness, Melancholy, and the like. This Stone is ground and wash'd to free it from the Spar and little Sparkles, as it were Sweepings of Gold, tho' 'ris only Sand, and afterwards dry'd and brought to us by the Name of Powder Green, or Verditer, which is us'd by the Painters; but more especially by those, who to encrease their Mountain Green, mix equal Parts of both together to make this come cheaper, that so they may get more Money by it; for which Reason never buy any Mountain Green but of Persons you can trust, and such as has the Marks describ'd, when treating of fell several Sorts of Verditers which have no Use is for the Painters. other Difference but according to the Pre-

Armenus Lapis, seu Lapis Arme-A Friend of mine affur'd me that the first nis, seu Melochites, the Armenian Lemery. ought to chuse that which is of the highest as big as a Nur, of a Mixture of Colours, Colour, well ground, which is known by Blue, Green, white, &c. It is brought from chewing of it betwixt the Teeth, and if it Armenia, whence it derives its Name; but is gritty it is a Sign that it is not well ground: at present it is also found in Germany, as in and to discover if it is genuine and not so- the County of Tyrol; it differs from Lapis phisticated; heat a little of it red-hot in a Lazuli, in that it is not so blue, but fuller of Crucible; if its Colour is not chang'd 'tis a droffy Stone, and other Impurities; and the true; for if it is adulterated there will that this is taken from the Silver Mines, be black Spots in it: Its Use is for Painting whereas the other is found in the Gold in Oil and Miniature. The Manner of pre-paring Ultra-marine is describ'd in so many Books, I thought it needless to repeat it it, to separate the finer Parts, or the Sandhere: I shall only say, that those who pre- which shines like Spangles of Gold; and pare it make it into four Sorts, which pro- this, when dry'd, they fell by the Name of ceeds from nothing else but the different Verditer, for the Painters Use. This Armenian Washings of the Powder, whereof the First Stone, prepar'd, is deterfive, and deficcative or drying, being outwardly apply'd, andinwardly purges melancholy Humours; it is good for the Epilepsie, &c. The Dose from: a Scruple to a Dram.

8. Of Smalt or Powder Blue.

Dowder Blue is either a Composition, or a Stone pulverized, Pomet. which we have from England and Rouen, whither it is brought by the Smedes, Hamburghers and Danes: The greatest Part of this Smalt comes from Dantzick in Poland, as well as several other Colours, with Zink and Tin-glass; but this being a Trade known but to few People, therefore those . who deal in these Commodities directly from Dantzick, sell cheaper than those who trade from Holland, England, or Rouen. Atter all the diligent Enquiries I cou'd make, I found it impossible to find out what this Pomder Blue was, some affuring me that it wasa Composition made at Rouen; but as those who made it kept it as a Secret, I never it; and besides when a little of it put upon could discover of what it was; it ought to Paper stains it not, but is like Sand, which be very fine, of a deep Colour, and as is a Sign 'ris not mix'd with Verditer. We dry and like to Ultra-marine as possible; its

9. Of the Tasper.

THere being various Sorts of 3a-Pomet. Purple, Cérulean, Aurora, or Crystal like: I shall speak only of that which is sold in the Shops, which is the Green Jasper; and if it had not been of some small Use in Medicine, I shou'd not have spoke of it. Being a very precious Commodity, it is very liable to be counterfeited in Glass: Chuse such as are of a fine deep Green, smooth and shining, full of red Spots, as if they were little Drops of Blood, and which can take no Impression from the Point of a Needle drawn-upon it, which is a Sign that it is truly Oriental. Some People affirm that the Green Jasper is very proper to cure the Epilepsy, and that it is a good Cordial; it is prepar'd as the Hyacinth and other precious Stones.

Jaspis, the Jasper, is a fine, hard, Lemery. smooth, resplendent, precious Stone, which differs little from the Agate, only that is not so hard and pure: There are a great many Kinds of it, but the Ori-ental is the best. It ought to be very hard, of a deep Green spotted with Red, and it is of some Use in Physick, ground fine upon a Porphyry: The prepar'd Powder is aftringent, proper to stop Blood and the Scour of the Guts. Great Virtues are affign'd it in and bring away the Stone in the Kidnies, it, too long to be inserted here. €c.

10. Of the Jade Stone.

inclinable to grey, extreamly the finesh Fade ..

Fade is a very hard Stone, of a greenish grey Colour; the finest Lemery: comes from the East-Indies. The Turks and Poles make several Uses of them. and it is difficult to work because of its excessive Hardness. Some pretend, that apply'd to the Region of the Kidnies, they are proper to bring away Stone and Gravel, but I can give no credit to such Re-

11. Of the Nephritick Stone.

HE Nephritick Stone is a greyish Stone, with a little Mixture Pomet. of Blue in it, so that it is usually of a bluish grey Colour, being fat and oily like Venetian Talck. This Stone is much valued by certain Persons for the Cure of the Gravel, which makes it so scarce, and fo much enquired after, because of its Virtues, which it performs by hanging about the Thigh of those who are troubled with the Stone or Gravel in the Kidnies, from whence it is call'd the Nephritick Stone: The Dearness and Rarity of this Stone is the Reafon why some have substituted in its stead a Kind of green Marble, surnam'd Malaquitte, and cut and carve it like a Bird's Head, because the Ancients believ'd that the true Nephritick Stone resembled a Bird's Head, or the Beak of a Perroquet. The true Nephritick Stone comes from New-Spain; and whoever wou'd know further of it may read Mr.: the Epilepsy, also to strengthen the Stomach, Worms, who has writ a large Description of

Lapis Nephriticus, or the Nephritick Stone, is of different Sizes, Lemery. pretty hard, opaque, of a bluish Grey or Ash-colour, but sometimes mix'd with white, yellow, or black, and is not THE Jade is a greenish Stone, persectly smooth, because it is unctuous like Talck; it is found in New-Spain, sometimes hard and very rare: This Stone is little us'd with the Jasper, and sometimes alone: Some in Physick, but pretty much in several Sorts reckon it among the Kinds of Jaspers, of Works that are very valuable, it being very making no great Difference, but only that difficult to cut. The Turks and Poles use a this is the harder: For the most Part they great deal of Jade to make Handles for their are found like Whet-Stones in the Fields in Knives, Sabres, Swords, and other Things, great Lumps, so big, that a Cup may be which they adorn with Gold; the Oriental is made of them. Carolina affords pretty large ones, of about eight Inches long, three

broad, and two thick, of an ash-colour'd are not so much esteem'd as what comes from America.

This Stone has the Property to eafe the Stone Colick, to break the Stone in the Reins, and expell Gravel by Urine, being hung about the Neck, Thigh, or Arm: Some prescribe it to be taken inwardly, from four to fifteen Grains. Of latter Years there is brought into Use for the same Diseases, a brown, smooth, shining Stone, which they call from its great Virtues, the Divine Stone; this breaks the Stone in the Kidnies, and forces it away by Urine; they tye it in their Cloaths about the Back.

12. Of Venetian Talck.

THE Venetian Talck is a Kind of greenish Stone in Scales or Flakes, which tho' it be farty, is nevertheless very dry and heavy; the finest is that which is found in the Quarries, fituated near Venice, from whence it is call'd Venetian Talck. It is found also plentifully in Germany, England, and about the Alps. The best Talck is that which is in large, white, greenish, shining Stones, that being broken sparkle like Silver Spangles, and which being in small Leaves are white, clear, and transparent: but take Care that they be equally fine throughout; for that which is in great Stones is very subject to be bad, by Reason of a great many yellow or reddift Veins that are found within, accompanied with a Kind of Earth that spoils the Sale of it; there are some of them also of a greenish White, instead of a reddish Yellow; so that we had better take that which is in moderate Pieces, which we may know at Sight.

Talck is much in Regard with the Ladies of Quality, who use it for a Cosmetick; and as it is exceeding difficult to reduce it is at this Day, that whoever could find the into Powder, yea, or to calcine it, the Way Secret of getting an Oil from Talck, without is now to grate it with a Fish-skin, and then the Addition of Salts or Acids, might be to fearce it, so using it as Occasion shall sure to sell it for its Weight in Gold; yea, I fir to be held in the Hand, is now call'd for. tions, and wonderful Vertues usually ascrib'd

Venetian Talck, while it is whole, is of Green: They are likewise gather'd in Bo- a greenish Colour; but being broken, or hemia, and several Parts of Spain, but those divided into thin Scales, it is known from English Talck by its Inclination to Friability, its green Colour and Fixedness in the Fire: For some who have kept it forty or fifty Days in a Glass-House Fire, have taken it out at the End of the Time, and found no Alteration in it, neither in Respect of Resolution, Colour, or Weight, but it has come out absolutely the same Thing as it went in. This Talck therefore being of so fixed a Nature, our Labour now must be to show how to open its Body in order to make those Preparations of it, which we defire, at least the noble White, which Ladies, with fo much Curiofity and Charges, feek after and pursue, It is true, there are a great many Men that boast what Preparations and Secrets they have of Talck; but this we certainly know, that there is no liquid Substance of it, yet invented or known. made out of the simple Thing itself; but fuch as is compounded by the Mixture of fuch Salts as are able to penetrate the Stone; so invincible is the Fixedness of the True Venetian Talck; therefore to attempt to calcine it, with Addition of some piercing Salt, is an unpardonable Vanity; but by the Help of some Salts, and acid Spirit, I confels a good Cosmetick may be made of it. to change and whiten the Skin.

The Ancients, and especially the Arabians, were sometimes of Opinion, that from Talck might be drawn a Remedy, of such Efficacy as ever to preserve the Body in good Case, for which Reason they gave it the Name of Talck, as much as to fay, an equal Disposition of Body, according to which it is in perfect Health; and from hence, undoubtedly, hath proceeded the Vulgar Error concerning an Oil of Talck, which is so much commended, and to which such extraordinary Vertues are attributed: and fo prevalent hath this Error been, and still require. Hence it is that almost none but may venture to say, twenty times more. fuch Talck, as is in moderate Pieces of a Size But fince as I believe the high Commendasons who flatter themselves with a Belief like a Star: There are two Kinds of it; that they have the Secret of Making it, af- one call'd Venetian Talck, and the other firm that it is incomparably good for Whiten- Muscovy Talck. The Venetian Sort is soft, ing the Skin, Smoothing the Face, and in scaly, heavy, and appears greafy to the a Word to make old People renew their Youth.

If Venice Talck be heated red hot, and put into an Iron Mortar almost as hot, it may be beaten in a small Time to a most fine impalpable Powder, which being sears'd may be mix'd with Ouguents and Pomatum, and us'd as other Cosmeticks of the like Kind. This Talck, thus pulveriz'd, may be strew'd among shell Snails, and left in a glaz'd Pipkin 'till they have suckt it all up; then having bruised them with all their Shells, put the Mixture into a Glass Cucurbit, cover'd with its Head; distill the whole Mass, and you will have a Cosmetick Water good to cleanse and beautify the Skin with.

We have another Sort of Talck brought us from Muscowy and Persia, which they call Red or Leaf Talck, because it is of a reddish Colour, and easie to be divided into Leaves as thin as you please. This Red or Leaf Talck is only used, so far as I know, by the Monks and Nuns, who put it, instead of Glass, before their Pictures and Agnus's, but don't, as some Authors affirm, imploy to this Purpose the Venetian Talck: This then, as I have faid, being the only Use of the Leaf Talck, we ought not to meddle with any, but what is in large Leaves, and when split or divided into very thin Pieces, is of a Crystalline Clearness and Transparency. There is not almost a more curious Commodity in the World than Leaf Talck with the required Qualifications, for as much as it is very rare to be found. 'Tis a Thing so very hard to understand, that I would not advise any one to buy any, but what is approv'd by those who work in it: That which, being thick, is blackith, and may be divided into Leaves extremely thin, is judged to be the best.

Talcum, or Talck, is a Kind of Lemery. Stone, or a mineral Matter, that is fine, white, fmooth, foft to the Touch,

to it, proceed upon Supposition it could shiring and transparent, dividing into be had, which is impossible, therefore I Leaves or Scales that will not burn; shall say no more of it, but that some Perform call it Stella Terra, because it shires Touch, tho' it is dry, of a Silver Colour, tending to green, something transparent: Chuse the finest white shining Pieces, upon the green Cast, that separate into little nice clear Leaves, or Flakes, that shine like Pieces of Silver. When you wou'd reduce this into Powder, rasp it with a Sea-Dog's Skin, or rather calcine it in a Crucible about a Quarter of an Hour; then heat it in an Iron Mortar almost red-hot, and sist it thro' a Sieve : It is us'd in Cosmetick Pomatums, by the Ladies.

The Muscovy Talck is hard, smooth, thining, and foft to the Touch, dividing or breaking into thin Leaves, that are almost as transparent as Glass, and sometimes it is reddiffe: This comes from the Quarries in Muscovy and Persia; chuse the finest and clearest; it serves them for Lanthorns, as we use Horn; but the Talck is more commodious, for it is more transparent, and not fo subject to burn. Talck is difficult to reduce to Ashes, by the Fire, because the Pores of it being small, the Parts of Fire slide thro" without making any Impression. I attempted to calcine both Sorts by a Burning-Glass; that of Venice was chang'd by the solar Fire into a groffer, yellowish, opaque Matter; and that of Muscovy into a light farine, being very fine white Powder.

13. Of Brianson Chalk.

HE Brianson Chalk is a Kind of Stone, or a mineral Substance, almost like Venetian Talck, but harder, and that does not so readily split or separate into Scales; there are two Kinds of ir, one white, and the other green, that are found in the Quarries or Pits near Brianson; they serve to take Greafe-Spots out of Cloths, and for Taylors to mark or score with; chuse the neatest, smoothest, green and soft.

14. Of Spalt.

SPale is a scaly bright Stone, very like Parget Stone, except that this is whiter: They find Abundance of these Stones in Germany, especially about Ausburg; there are some likewise in England, but not fo good. We sometimes see Fragments of this Stone adhering to and mixt with Frankincense, a Sign that it is found in the Places whence it comes; it shou'd be in long brittle Scales that may be eafily crumbled to Powder with the Nail of one's Thumb, which can't be done by that of England, being more hard. Spale is us'd by feveral Sorts of Workmen, being good to affift the Founders in Melting of their Metals, which I cannot affirm to be Fact, having never feen it try'd.

Lemery. to flux their Metals with; it is deterfive and and Bladder.

drying, outwardly apply'd.

15. Of the Lapis Judaicus, or Jews-

THE Jews-Stone is of different Sizes and Figures; but the most common Size is that of an Olive, adorn'd with little Streaks or hollow Lines, running Stones are brought us from different Parts

phur, from it, with distill'd Vinegar, Spirit of Salt, and Spirit of Honey, may be drawn a salt that is admirable for breaking the Stone; where those who desire to prepare it may be instructed therein

Lapis Judaicus, Lapis Syriacus, Phenicites, Tecolithus, or the Jews- Lemery. Stone, is of various Forms and Bigness, but most usually is shap'd like a small Olive, streak'd all over with Lines that run thro' the Length of it, and are equally distant one from another; some are found smooth without any, and some in a Cylindrical Form: The Colour is grey, and fometimes reddish without, and whitish within: It appears to be hard like a Flint, but is foft and may be easily beat to powder: they are distinguish'd into Male and Female; the Male is that which is large, long, and of a Cylindrical Figure; the Female is that which is of the Shape and Size of a Imall Spalt is a scaly Stone that is Olive: They are both indifferently us'd in bright, and looks like Plaister Physick, being first ground to a fine Pow-Stone, or Crystal of Montmartre, der on a Marble. This Powder is given but it is much whiter: It is met with in to stop Fluxes of the Belly, to provoke U-England and Germany. The Founders use it rine, and to break the Stone in the Kidnies

16. Of the Lapis Lyncis, or Thunder-

HE Belemnites, falsely call'd the Lynx Stone, is a Kind of Pomet. Flint made in a Pyramidal Form, to which the Ancients gave the Name of Belemnites, from its Resemblance to a Dart from one End to the other, and sometimes it or Arrow, and others of Dactylus Ideus, from is altogether smooth. This Stone is usually its Likeness to a Finger, and because it is Grey, and fometimes of a reddish Grey, found on Mount Ida; others say it was call'd and shines like our little Flint Pebbles, of Lapis Lyncis, because it was believ'd that it which I believe it to be a Species. These was form'd from the Urine of the Lynx. This Stone is harder than the Jews Stone, of Judea, from whence they take their notwithstanding they attribute the same Name: They are likewise call'd Syrian and Virtues to it: And Mr. Charas told me it Phanician Stones. This Stone, tho' it be might be prepar'd after the same Manner, like a Flint, it is nothing so hard, yet not and used for the same Purposes. This Stone to easie to break as some Authors have as- being broke is of the Colour of Horn in ferted; but being broke it is of a whitish the Concavity, in which is found a Sort of Grey, and shining. Mr. Charas, in his grey dry Earth, of an insipid Taste, and Book of Chymistry, at the 821 Page, says, like to be good for nothing: At the End of that this Stone being calcin'd with Sul- the Stone there also appears, as it were, the Resemblance of a Sun. Plenty of these Stones are sound about *Paris*, in digging and labouring the Ground, especially in sandy and gravelly Soils.

Belemnites, sive Lapis Lyncis, Lemery. five Dactylus Ideus, the Thunderstone, or Thunder-bolt, is about the Length and Thickness of a Man's Finger, fometimes more, and fometimes less, round, pointed, or in a pyramidal Form, like an Arrow: They are found of different Colours, fometimes white, and fometimes grey, and fometimes brown, brought usually from Candia; but they come likewise from Germany. They find the same about Paris, in the fandy Grounds, and there are two Sorts of 'em; one that being put upon the Fire will yield a bituminous Smell, and the other none at all. The first is plainly, that which the Ancients call'd Lyncurius. and believ'd falsely to be a Kind of Succinum, or Amber that was made from the Urine of the Lynx coagulated. The Stone being broke they find in its Concavity, that looks of a Horn Colour, a little dry grey Earth, without Smell or Tafte. This Stone is us'd to break the Stone in the Kidney, and to expell it by Urine, being taken inwardly: It is also us'd externally to cleanse and dry Wounds; it is ground on a Marble to reduce it to Powder.

17. Of the Bolognian Stone.

THis is a heavy Stone of a shining Silver Grey, very like in Figure to the Nephritick Stone, which is found very commonly about Bologna in Italy, whence it takes its Name. This Stone is of no other Use than, after Calcination, to make the Phosphorus, of which Mr. Lemery treats fo largely at the End of his Book of Chymistry; and likewise Mr. Worms, he having writ a long Discourse of it, whither those who defire to make it may have Recourse: The Bolognian Stone is not yet well known amongst us, which is the Cause we sell so little of it. Some call this Stone calcin'd, the Sun or Moon Spunge, the illuminated Stone; Lucifer, Caffiolanus his Stone, or Kercher's Phosphorus.

Lapis Bolonienfis, Chryfolapis, or the Bolognian Stone, is a Stone where-Lemery.

of a Phosphorus is made: It is ordinarily of the Bignels of a Walnut, bunch'd, uneven, flattish, and dispos'd in such a Manner, that the Side opposite to the Bunch or Knot, makes a Kind of Cavity; it is heavy, grey, foft, thining in feveral Parts, Crystalline within, almost like Talck of Montmartre: It is found in several Parts of Italy, but chiefly at the Bottom of Mount Paterno, which is a Part of the Alps, and distant from the City of Bologna, about a League; they are easily discover'd after the Floods of Waters that happen from the great Rains; for then the Earth is wash'd and clean'd that furrounded them, and hinder'd them from being seen: They are distinguish'd from other Stones of the Mountain, by little Sparks that appear on their Surface; and we may see, in the Cabinets of the Curious, some of these that weigh to five Pounds. These large Stones are no otherwise valuable than for their Scarceness, they being more earthy than the small ones, and not so good to make the Phosphorus of.

The best Bolognian Stones are those which are found cover'd on the Outside with a thin, white, and opaque Crust, but these are very rare; and fince we cannot come at them we use the common Sort, which shou'd be chose with the fewest Spots, and that are bright; the worst are those where there appear Veins of Vitriol or Iron; these contain in them much more of Sulphur and

Salt.

The Bolognian Stone is prepar'd and reduc'd into a Phosphorus, by a moderate Calcination, that purifies and exalts the Sulphur more than it was, This Calcination is made in the following Manner: Take seven or eight of these Stones cleans'd on the Outside with a Rasp, or a Knife, and powdering very finely one or two of the most thining of them in a Brass Mortar, throw the others whole, one after another, into clear Water; and having taken 'em out, cover them intirely over with the Powder, by rolling them in it, that they may lick up as much as they can; then put them into a little Furnace or Stove, with a Brass Grate, upon which you must lay them in order, with a Fire under them to calcine; Vol. II. Bb

to an impalpable Powder.

which being expos'd to the Day in an open Field or Street, are lighted, as it were in an instant; after which, if they are carried into a dark Place, they will appear like lighted Coals without any fensible Heat, and you may extinguish them by little and little; but if you let in the Light they will burn again, and thus they will last for two or three Years together, according as they are more or less frequently expos'd to the Light; and when these Stones have lost their Virtue they may be restored again, by observing the same Circumstances as before, but their Brightness will be much less. The Crust reduc'd into Powder is likewife finer and more illuminating, when expos'd to the Air, than the Stones; they fill little Bottles of fine Crystal with it closely stopt, which they keep to give Light when they please, for they are not oblig'd to expose it to the Air as they do the Stones, the Crystal not giving any Obstruction to the Light from the Powder.

One must not imagine that any of the several Circumstances that I have shewn for the Calcination of the Bolognian Stone are useless; for they are so necessary, that if they be not all exactly observ'd, the Operation is loft, and the Stone will give no Light: This Stone acquires, by Calcination, a fulphureous Smell, like melted Orpiment; and when it is boild with Lime and Water, it yields likewise a little Arsenical Salt.

The Reason why it appears light proceeds from the Fire mixing with the Sulphur in its Motion, which raifes to the Superficies an Infinity of Particles that are so subtle and delicate as to take upon Light, or the Motion of the Air; but those who desire to be more I have faid in my Treatife of Chymistry,

which when done, let the Fire go out of it- likewise given you the Figure of a Furnace felf; and when all is cold, take off your that is most convenient and proper for Calcalcin'd Stones gently from the Grate; fepa-cining this Stone, which is a Depilatory; and rate the Crust, which comes from the Pow-being powder'd and mix'd with Water to der in which you have roll'd them, and keep the Confistence of a Paste, may be apply'd the Stones in a Box with Cotton; preserve to any Part of the Skin where there is Hair likewise the Crust which is to be reduced in- to be taken off: It is call'd Phosphorus, or Lucifer, from bringing of Light, and Chry-These calcin'd Stones are the Phosphorus, folapis, from casting a Light of a golden Co-

18. Of the Pumice Stone.

THE Pumice Stones, which the Latins call Pumex, are Stones Pomet. of various Colours, Shapes and Weight, being white, greyith, light, heavy, big, little, round and flat; they are valued more or less according as they are demanded; for some esteem the white, others the grey, some the light, and some the heavy: Notwithstanding which, I must tell you, that the largest and lightest are most set by, especially for those who make Parchment, and Stone-Cutters, who confume Abundance: but the small are scarce us'd but by the Pewterers, who reduce them into Powder. As to the flat Pumice Stones, they are not us'd but by the Curriers; in a Word, the Pumice Stones are of fuch Use, that we have scarce any Commodity whereof there is a greater Consumption, there being such Abundance of Workmen that use 'em. As to Physick, the little Use made of it is not worth speaking of, fave only that after Calcination and Powdering, it makes a Dentrifice for the Cleaning of the Teeth.

As for the Nature and Constitution of this Stone, I have not yet been able to come to the Knowledge thereof; wherefore I shall rest satisfied with what several Authors say of it; namely, that it is a Stone thrown out of Mount Vesuvius, or Mount Eina, and by the Violence of the Winds carried into the Sea, where it is found swimming on the Surface, from whence 'tis taken : Othersfay they are the Stones of Mountains that fully inform'd in this Matter, may read what have been burnt by subterranean Fires. However, 'tis certain, that the Pumice Stone is a where I have fooke not only of this Kind of calcin'd Stone, because it is light and porous, Phosphorus, but of several others; and have or full of Holes, and that it has been in the

Sea, or is of a falt Nature, for as much as near Treveux in the Principality of Dombes. all the Pumice Stones we sell are of a salt It is now no longer believ'd that they are and brackish Taste, and full as it were of found in the Eagle's Nest. little Needles.

fenny, or marshy Taste, full of small Needles. They are found likewise in Sicily, near Mount Vesuvius, from whence they come; is a Stone commonly round or o-and in Germany, about Constants, the Moselle val, of the Bigness of a Walnut, to clean Teeth.

19. Of the Ætites, or Eagle Stone.

Pomet. WHat we call the Eagle Stones are certain Stones that are hollow in the Middle, and contain in them a stony Nut or Kernel, that makes a Noise when we shake them; we commonly find but four Sorts of them, that are indifferently call'd in Latin Lapis Ætites, but the Kernel and half a one broad, rough or knotty, and that takes a good Polish: The Second is fomething less than the other, and seems to partake much of Iron, for it is cover'd with an Ocre like the Iron Marchafite. The third Sort is rough and uneven, as if it was compos'd of Fragments of little shining Flints of different Sizes, whereof some are brown, and others of a ruffer Colour, and fome as it were transparent; and all these Flints are strongly knit together by a natural Cement, and most commonly nothing is found within it but some Grains of Sand. The fourth Kind is of an ash Colour, and Enquiries after it, affirm that this Stone is contains within it white Clay or Marle; this Sort comes from Germany: The First and Second are found in the Bogs of Cape St. The round Toad-Stone is of the Shape of a

It were to be wish'd that the Virtues at-Pumex, or the Pamice Stone, is tributed to the Eagle Stone were as certain as Lemery, a Stone or Earth that has been cal- they are confiderable; Authors affirming that cin'd by subterranean Fires, thrown it facilitates the Birth, if tied to the Thigh out by Eruptions of the Vulcano's, and by the of a Woman in Labour, and that it hinders Force of Winds, carried into the Sea, where Miscarriages if tied to the Arm; they beit is found floating; there are several Kinds lieve that reduc'd to Powder, and mix'd in of it, the large, small, round, flat, light, a Cerate, it lessens the Paroxysms, or Fits of heavy, grey, white, &c. the most valued the Epilepsy, if apply'd to the Head: 'Tis are the biggeft, lightest, and the cleanest; also said, that the Marle or Clay that is found they ought to be porous, spungy, of a salt, in the Hollow is sudorifick, and will stop the Flux of the Belly.

Ætites Lapis, or the Eagle Stone, is a Stone commonly round or o- Lemery.

and the Rbine; they are alkaline, deterfive, and sometimes of a small Puller's Egg, of a drying, us'd for old Ulcers, sore Eyes, and greyish or dark Colour, hollow in the Midgreyish or dark Colour, hollow in the Middle, wherein is contain'd a Sort of stony Kernel, that rattles in the Stone when you shake it. There are four Kinds, [according to Pomet's Description] all which have great Virtues affign'd them, which are nothing but imaginary, Experience not confirming them with any Pretence of Certainty: It is aftringent, and proper to stop Loosenesses and Hemorrhages, taken inwardly; the Kernel, which is softer than the Stone, is more advantageous for all the same Purpoles: They are call'd Atites, that fig-Callimus. The first Sort is brown, oval, nifies Aquiline, or of the Eagle, because it was usually the Length of two or three Inches believ'd that the Eagles surnished their Nests believ'd that the Eagles furnish'd their Nests with these Stones to preserve their Young.

20. Of the Toad-Stone.

THE Toad-Stone, call'd in Latin, Bufonites, and Batrachites in Greek, Pomet. is a Stone likewise found in the Mountains, or the Plains. It has been believ'd that it was bred in the Head of an old Toad. whence it was voided by the Mouth of that Creature when put upon red Cloth: But Boetius, and those who have made exact form'd in the Earth; there are commonly two Sorts, to wit, the round and the long: Vincent in Portugal, and in the Mountains small Bonnet, round in Circumference, hollow

about half an Inch broad at the Bottom; Some hang them about their Neck for Quarsome of them of a deep grey inclining to tan Fevers; but all these Virtues are imagiblue; and there are others of a reddish Colour; but both Sorts are usually of a much lighter Colour at their Bottom. The long Toad-Stone is most frequently of an Inch long, and above four or five Lines thick, hollow'd like a Trough on one Side, and of a convex Figure on the other: Some of those are of a deeper, and some of a lighter Grey, marked with some reddish Spots, and smooth as the round: They fer them, especially the round Sort, in Rings; but that is more for Ornament that any Virtue in them, for they are very uncertain in their Effects, especially when they pretend that they allay the Inflammation occasion'd by the Sting of Bees, or other Insects. It is falle that it changes its Colour, and fweats when it approaches a Cup wherein there is Poison; tho' Boetius and others affirm, that the Toad-Stone is found in the Ground, nevertheless I shall not contest or dispute, but that it may be bred in the Head of old Toads, tho' it is certain what we now fell comes not from these Animals, but is found in the Earth, as has been observ'd. This Description of the Toad-Stone, and that of the Eagle Stone were given me by Mr. Tournefort, who is a Person on whom we may depend.

Bufonites, Chelonites, Batrachi-Lemery. tes, is a Kind of precious Stone, whereof there are two Kinds, one round, and the other long. The First is round in its Circumference, hollow on one Side, and convex on the other, in Form of a little Cap or Bonnet, about half an Inch broad at the Basis, very smooth, sometimes grey, brown, black, green, and of various Colours. The second Sort is sometimes more than an Inch long, and above four or five Lines thick, [according to Pomet's Description]. The Size of thete Stones are sufficient to undeceive those who believe that they are taken from the Heads of Toads, for they are found in the Mountains, and the Plains where they are produc'd.

Some pretend, that being powder'd and taken inwardly, they are capable of refifting

the Plague and other malignant Diseases; that

low below, convex above, and very smooth, venemous Beafts, they draw out the Poilon. nary, for the Toad-Stone has nothing in it but an alcaline Quality proper to absorbe Acids, and to stop Looseness, taken from a Scruple to half a Dram; but it is not in Use.

21. Of the Lapis Aminantus.

HE Lavis Amiantus is a Stone of a greenish Black without Pomet. and within, pretty heavy, that being broken is almost like Plumous Alum, in that it rises in Threads of a whitish Green, or rather of a Horn Colour. This Stone is incombustible, and the Ancients were not much deceiv'd when they said the Lapis Amiantus and the Plumous Alum were the same Thing: There is notwithstanding some Difference, in that the Plumous Alum rifes in long Threads; and this, in short: besides the Extremities of the Plumous Alum, are not of a Colour with those of the Lapis Amiantus. This Stone is found in Turkey, for all that we fell comes from Constantinople; as to the. Choice of it, or its Ule, I know nothing.

Amiantus, five Albeston, sive Albestes Lapis, is a Stone of a Mine-Lemery. ral Substance, or a Kind of Talck that has a near Resemblance to Plumous Alum, which feveral People confound one with the other, believing them to be the same Thing: It is found in two different Forms; for the one is in Filaments or Strings, like those of Plumous Alum, but much longer; the other is in a brown or blackish hard Stone, but that will spread under the Hammer. The Ancients spun Amiantus and made incombustible Linnen of it, which, amongst other Uses, served them to wrap their dead Bodies in when they burnt them to preserve their Ashes: The Corps burnt while the Linnen remain'd entire. This Stone is found in the Quarries near the Pyrenées. Amiantus is us'd in some Remedies; they believe it refifts Poison, cures the Itch, and is deterfive.

22. Of Cobalt.

Cobalthum, or Kobaltum, is a reddish hard Stone, that is heavy, being apply'd to the Stinging or Bitings of and in Grains of the Size of our Peas, that flick of Spar or Marchasite, like Antimony. This Parts of Germany, where they call it Ben-Cobalt is usually found in the Silver Mines, biru, but chiefly near Spires, Heidelberg, and and is a Plague to the Workmen, being a D'Armstadt. They pretend that this Stone has dangerous Poison: For if by Chance it fall the Power or Faculty of setting a broken into the Water, and that the Miners be o- Bone when taken inwardly, as well as when blig'd to go into that Water, they are fure apply'd to the Fracture. of having their Legs all ulcerated. This Cobalt is much different from that of some Au- describ'd, we sell several other Kinds, such thors, who have thought it to be Cadmy, or as that of Affo, the Serpentine and Blood Lapis Calaminaris; but they are grolly mif- Stone, which is a Sort of Marble full of taken, fince 'tis easie to see the Difference. little red Spots, from whence it takes the Name As to its Uses they are unknown to me, and of Blood Stone, as also because it is pretended mand for it.

Lemery. of Marchasite, or hard, heavy, redwhich are collected together upon a Mineral Body like Antimony. This Stone is compos'd of a Kind of Natural Cadmy that is found in the Silver Mines; it is a strong violent Poison, yielding a burning Arsenical Salt, a Sulphur and an Earth compos'd of some Metallick Parts: It is caustick, and being apply'd externally makes an Eschar upon the Flesh, and eats off Excrescencies.

23. Of Osteocolla, or the Bone-Binder.

Pomet. THE Osteocolla, or Bone-Binder, is a sandy Stone, and porous like a Bone, whereof there are two Kinds; the one heavy, gravelly, uneven, and call'd Ofteocolla from Ofteon and Colla, which pretty round; the other light and less is as much as to say Bone-Glue.

flick several of them together upon a Kind ragged. The Offeocolla is found in several

Besides all these Sorts of Stones already

its Scarceness makes that there is little De- that it stops Blood: The Star-Stone, Rock-Crystal, Alabaster, and many others, where-Cobaltum, five Kobaltum, is a Sore of several Authors have treated at large.

Osteocolla, Ostiocolla, Osteites, Stedish, granulated Stone, many of lechites, Morochtus, Holosteus, Osteo- Lemery. lithus, Lapis Sabulosus, Lapis Offifragus, or the Bone-Binding Stone; is a fandy hollow Stone, of an ash or whitish Colour, having the Shape of a Bone of different Sizes; fome are met withal as big as one's Arm; we have two Sorts of them; one round, uneven or rough, fandy and heavy, the other smoother and lighter; it flicks to the Tongue like Pumice Stone: Both Kinds are found in several Parts of Germany, as the Palatinate, Saxony, and where they grow in fandy Places: It is us'd to agglutinate and restore in a little Time broken Bones, being apply'd upon the Part, and taken inwardly at the same Time. Dose from half a Scruple to two Scruples: It is:

End of the Fifth BOOK.

B O O K the Sixth, of the Second Volume.

Of EARTHS.

The PREFACE.

YN this Book are contained not only the Earths that are of Use in Medicine, but likewife those which are serviceable to the Painters; in a Word, all that are soft and apt to crumble, and for this Reason have not been rank'd among the Stones. I comprehend in this Book whatever is made from Earths; that is to fay, that are related to our Business: I put into the Number of the Earths the Catechu, or Cachou, not because of its Likeness to an Earth, but that most People will have it to be one as the Name imports, and will appear in the following Chapter.

I. Of Cachou, Cashew, or Japan

TACHOU, according to Mr. Caen, Doctor of Physick, of the Faculty of Paris, suitably to what was communicated to him found in the Levant, where it is call'd Maf-

it up, Sand and all together, and wet it with River Water, and make it into a Paste, drying it in the Sun to the Hardness we see it of; the Natives always carry it about them, and use it for the Pain of the Stomach; they also apply it outwardly like an Oyntment upon the Region of the Stomach.

Tho' this Description of Cachou appears by one of his Friends, is an Earth that is not very conformable to Truth, because there is no Probability of its being an Earth; quiqui, which is usually met withal up- yet as the Person, who gave this Description on the highest Mountains where the Ce- to Mr. Caen, affur'd him that it was so; and dars grow, under the Roots of which this for as much as 'tis call'd in Latin Terra Fa-Barth is found, which of itself is very hard, ponica, I was oblig'd to rank this in the Class and in a Lump. To lose nothing of this of Earths, and leave it to those to determine Earth, the Natives call'd, Algonquains, gather what it is, who understood more of it than I

it is usual to reduce it into a fine Powder, correct a stinking Breath. and to mix it with Ambergrife, which with the Mucilage of Gum Tragacanth, is made up into a Pafte, and form'd into little Pellets, in Colour and Figure having the Resemblance of Mouse's Dung, and the fmaller these Troches are made the more valuable are they.

The Use of Cachou, whole or prepar'd, is to strengthen the Stomach, and to make the Breath sweet; and in short it is one of the best Druggs we have, and yet at this Time the least used, which proceeds from the great Use of Tea and Coffee, tho' Cachou is of much greater Virtues than either of them.

As Cachou is very unpleasant to the Palate, especially when first put into the Ambergrise, mix Sugar with it.

brown Colour, streak'd with little whitish Rays: The Second is more porous, less prepar'd by the Japanners, with the Ex- describ'd Qualifications. tract of Areca, Calamus Aromaticus, Liover the Fire: Others pretend that it is made with the Juices of Areca, and the upon it. green Bark of a thorny Tree of Japan, Terra green Bark of a thorny I ree of Japan, Ierra Signata, Ierra Lemmia, call'd Catechu, and thicken'd together by seal'd, or Lemmian Earth, is a Lemery. Heat. Others, as some Moderns main- Kind of Bole, or fatty clayey tain, that it is an Earth from the Le- Earth, that is dry, foft, and friable; somevant, call'd Masquiqui, [as describ'd by times yellowish, whitish, or reddish, insi-Pomer]; but after all Cachou does not appear to the Tafte; they bring pear to the Tafte to be any Thing of it sometimes into the Isle of Lemnos, but

do : All I shall say is, that you ought to an Earth, but rather a thick Juice ; bechuse Cachou of a tawny Red without, and sides, there is drawn from it, by Chyof a clear Red within, the brightest and mical Analysis, a great deal of Oil and least burnt that can be.

Essential Salt, like what is drawn from As Cachou is a very bitter Drugg, and of Plants. It is good to ftrengthen the Brain, an unpleasant Taste when taken in the Mouth; Lungs, Stomach; against Catarrhs, and to

2. Of Seal'd Earth.

TErra Sigillata, or Seal'd Earth, is a Kind of white Bole, Pomet. sometimes a little reddish, that is moisten'd with Water, and afterwards form'd into little Cakes half round, of the Bigness of one's Thumb, upon which is stampt several Characters: The Variety of Figures, Colours, and different Seals, that are found upon the Terra Sigillata, makes me think that every one makes 'em to his Fancy; and that it is nothing but a fat astringent Earth, that is more or less colour'd, and reduc'd into such Cakes as Mouth; therefore some People, besides the are brought us. I shall not stop here to relate all the fabulous or true Stories Catechu, five Terra Japonica, or which the Ancients have told concerning Lemery. Cachou, is a Sort of dry'd Paste, the Native Place whence this Earth comes, hard; a little gummy, reddifth, and the Ceremonies us'd when it is gahaving the Form and almost the Hardness ther'd, nor how the Grand Signior figns of a Stone, of a bitter and austere Taste it with his own Seal, So. but I shall at the Beginning, but leaving afterwards a tell you that the Earth that is most us'd foft and agreeable Impression in the Mouth; and esteem'd, is that which is in little there are two Sorts of it, the first and most reddish Cakes, the least sandy or gravelcommon is compact, heavy, of a reddish ly, and the most aftringent that you can get.

It is much used in Medicine because of weighty, and paler than the first. We are its aftringent Quality: It is also an Ingrenot sufficiently inform'd concerning the Na- dient of Venice Treacle, and needs no oture of Cachou; some saying it is a Paste ther Preparation than to have the above-

As to the Earth of Lemnos, 'tis faid to quorice, Ec. mix'd and harden'd together be the same with the Seal'd Earth, but in its natural State, without any Impression

Terra Sigillata, Terra Lemnia,

Germany, Bloss, and feveral other Parts: It comes ordinarily form'd into little round Cakes about the Thickness of one's Thumb, roundish on one Side, and flat on the other, by a Signet engrav'd with some Arms or certain Devices that the Prince of the Country causes to be put upon it, and this is the Reason why it is call'd Seal'd Earth: That of the Ancients was yellow, and made into Cakes much smaller than these at present are, and had engrav'd upon 'em the Arms of Diana under the

Representation of a Goat.

of a whitish red Colour, that will cleave stringent, good against Fluxes and Gleets; to the Tongue; they tinge or colour it it thickens thin Humours, relifts Putrefometimes with Turmerick, or some o- faction, and expells poysonous Bodies: It ther Drugg, to make it come up to the is likewise us'd in spitting of Blood, bleed-Colour of the Ancients, which is the true ing Wounds; and also to consolidate broken Lemnian Earth, and was taken from a Bones, strengthen weak Limbs. Hill where no Plant grew. The Turks, Bolus, or Bole, is a foft, brittle, who are the present Masters of it, mix reddish, or yellow Earth, which Lemery. this with other Earths of the same Na- is brought us in Pieces of diffeture; and having kneaded them to- rent Shapes and Sizes; the finest comes gether with Water, make 'em up into lit- from the Levant and Armenia, call'd Botle round Cakes, which they seal with the lus Orientalis, seu Bolus Armena; but all Grand Signior's Signet to make it pay Du- the Bole we have, which is in Use as Wounds, and strengthen the Joynts.

3. Of Fine Bole, or Bole Armoniack.

IF we have several Sorts of Seal'd Earths we have not less of Boles, whereof the most esteem'd is that which has its Name from the Levant or Armenia, whether because it formerly was brought from those Parts, or that those who deal in it may make it fell the bet- is call'd White Bole is an aftringent Marle, ter; but as I have never seen any of that, but not so efficacious as the Red Bole. and what we now fell is found in feveral Parts of France, I must inform you the best is that we have from about Blois and Saumur, or from Bourgogne, and which is of various Colours, as grey, red, and yellow; the yellow is the most valued, tural Colour is yellow, and it is turn'd red

it comes at present from Constantinople, because it passes the readyest for Bole of the Levant, and because it fits the Gilders best.

As these Boles are the dearest, because of the Charge in transporting 'em to Paris from Blois or Saumur ; we prefer that of Baville and other Places about Paris, because the Peasants bring it us at a cheaper Rate than we can buy the other. The best is the cleanest, smoothest, and well colour'd, of a light yellowish Red, which being tasted seems to melt like Butter in the Mouth; its Thickness is known by sticking to the Tongue: The counterfeit or adulterate Bole is of a sad deep Red, san-. Chuse your Seal'd Earth that is soft to dy and gritty, being indeed not of a third the Touch, clayey, apt to crumble, and Part of the Price: It is very drying and a-

ty. This Earth is a good Antidote against mongst us at present, is brought from se-Poison, proper for Fluxes, Hemorrhages, veral Parts of France, and the best is about Gonorrhea, Whites and Vomiting. Dose Blois or Saumur. As there is found in the from half a Scruple to two Scruples; it Quatries or Pits a great deal of coarse is outwardly us'd to stop Blood, dry up and gravelly Bole, they wash it to free it from the Gravel, then make it into a hard Paste, which they form into square Sticks, about a Finger long, which is call'd Bole in the Stick, and is us'd externally: Bole is astringent and desiccative, proper to stop Loofnels, Dylentery, Spitting of Blood, to sweeten the Acids being taken inwardly: There is also a great deal us'd externally to stop Blood, prevent Fluxion, and strengthen and consolidate. That which

4. Of Oker.

THE yellow and red Oker is one Pomet. and the same Thing, for the naby Means of a Reverberating Furnace, in which they put it, to make it red by the Force of the Fire : All the best Mines of Oker in France, are in Berry; and among the rest, that which is at a Place call'd St. George, upon the Side of the River D'Ucher, two Leagues from the rona, which is brought from about City Vierzon in Berry, where they dig it Verona in Italy, whence it takes its Name, out of the Earth, as they do Pit-coal. and the common Green.
This Oker is found 150, or 200 Foot The Earth of Verona deep in the Earth, of four to eight Inches and as green as may be, and take care that thick; only they find under this Oker a it be not inlaid with Veins of Earth. white Sand, like that of Calais, and above

There comes likewise yellow and red Oker from England, which is browner than Verte, is a dry Earth, of a green Lemery. that of France, but not so good, because it Colour, which is brought from is naturally dryer, and comes from a stony Verona in Italy, and is for the Painters Ground which they are forced to grind in a Use. Mill; whereas that of Berry is more natural, fatter, and works better in Oil; fo that the Dutch will not use the English Oker, but when they mix it with an equal Share of that which comes from

Berry. Both Sorts are us'd by the Painters, but that which is most fet by, is that which is dry, foft, friable, of the highest

Colour and least gravelly. There comes besides a Red Oker from England, which we commonly call Brown Red; this is us'd by the Painters; but that which is of a much deeper Colour is call'd Putty, and they imploy it in polishing of Glass.

Ochra, in English Oker, is a Lemery. Mass of Earth that is dry, fat, will crumble, and is foft to the Touch, of a yellow or gold Colour, that is taken form some deep Pits in Berry; they calcine it in the Fire, 'till it gains a red Colour, and then it is call'd Red Oker; both Sorts are us'd by the Painters; they are resolutive, drying, astringent, being externally apply'd. Some fay there is another Sort of Oker call'd Alanian Earth, or Tripoly, and Terra Albana; it is chiefly found in Alania, a Place near Scythia, but and offensive. is brought to us out of the Mediterranean, being a Species or Kind of Oker.

5. Of Green Earth.

WE fell two Sorts of Green Earth, to wit, that of Ve- Pomet.

The Earth of Verona ought to be stony,

The common Green ought also to be of the Oker a yellow Clay good for no- the greenest, and as near resembling that of Verona as you can get.

Terra Viridis, in French Terre

6. Of Cologn Earth.

Cologn Earth is an Earth altogether like that of Umber, excepting only that it is browner: This is of some Use to the Painters. You must chuse such as is tender, easie to crumble, the cleanest, with as little Mixture of Dirt as possible.

7. Of Umber.

Mber, so call'd because of its being us'd in drawing Shades, is brought to us from Egypt, and other Places of the Levant, in Lumps of different Bigness.

In the Choice of this Earth you ought to take that which is foft, in large Pieces of a brown Colour, enclining to the Red, for this is better than the grey.

Its Use is for the Painters, and before it is ground 'tis usual to burn it, as well for Painting in Oil as for the Glover, which makes it become more reddish; the Fume of it ought to be avoided, as being stinking

8. Of

8. Of Tripoly.

THE Tripoly is of two Kinds in France; the one they bring from Poligny near Renne, in the lower Bretagne; the other from a Place call'd Menna near Rion in Auvergne. That of Bretagne is most esteem'd, and the best, being more proper for Lapidaries, Goldsmiths, call English Red; this is a very dear taken from a Mountain at twenty or thirty Foot of Depth, and is found in Veins or Beds of about a Foot Thickness: They carry it to Redon, where it is ship'd and transported to Nants.

That of Auvergne is not so valuable, being not at all fit for the Use of Jewellers, Goldsmiths, or Braziers, because it has not Substance; and also rises into thin Leaves like Paper, when 'tis dry. It is only us'd for scouring Houshold Stuff, and is found almost in the very outer Surface of the Earth.

'Tis said that Tripoly is a Stone that becomes light by Means of certain Veins of sulphureous Earth that are burnt under the Tripoly, and which gives it the Quality

much fought after; besides which we have it in France, and there is no Occasion to bring it from other Parts.

Alana, in French Tripoly, is a Lemery. light white Stone, tending a little from several Mines of Bretagne, Auvergne, and Italy. 'Tis believ'd that the Lightness of this Stone proceeds from its being calcin'd by the subterranean Fires. We have two Sorts in France; the first and the best is that from a Mountain near Renne in Bretagne. It is found laid in Beds of about a Foot thick, and is us'd by the Lapidaries, &c. to whiten and polish their Works. The fecond Sort is brought from Auvergne; this divides itself into Flakes or Leaves, and is of no Use to the Lapidaries

or Braziers, but ferves to fcour Pots and Kettles, and other Utenfils belonging to the Kitchin: It is deterfive and drying apply'd outwardly, but of no Use in Medicine.

9. Of Indian Red.

HE Indian Red, or Persian Earth, is what we improperly Pomes. Braziers, and all other Workmen: It is Drugg, especially such as is in little Pieces. moderately hard, and of a high Colour. This Red is us'd by none but the Shoemakers, who steep it in the White of an Egg to colour Shoe Heels with.

We have besides this, several other Sorts of Earths that come from the Pits; as Marle that some sell by the Name of White Bole, and many other wash'd Earths; as Rouen White, that of Seve and Port Neuilli, Champaigne Chalk, and others; of which we fell none, because we can easily come at them, as the Smeltim or Fullers Earth, which is a far, fmooth, sticking Earth that is heavy, fometimes yellowish, and fometimes blackish. This is much us'd by the Cloathiers in England; and because this Earth does almost the same Thing as Soap, the Latins call of whitning, polishing, and brightning the it Terra Saponaria, or Soap Earth; also the Mexican Earth, which is a very white There are also Mines of Tripoly in Italy Earth, which the People of Mexico make and other Places; but as this Commodity is use of to whiten with, and in Medicine like of little Value and Confumption, it is not Ceruse; and likewise it serves to polish

> The Marga is a Kind of white Stone very like to Champagne Chalk. The Lithomarga, or Stenomarga, is what we call Stone Pith, or Mineral Agarick, or Moon-Milk; upon the red, which they take this Stone is found in the Chinks or Apertures of the Rocks in several Parts of Germany, and different Names have been given to this Stone, because it is very white and crumbling, and that this Whiteness comes from its being calcin'd by the Vapours which arife from Metals.

There is, besides, several other Sorts of Earths, as the Eretrian Earth, the Samian Earth, Chio, Selinusian and Cimolian Earths, and Tobacco-pipe Clay; with many others whereof feveral Authors make mention.

As to the Preparation of Stones or Earths, that is done ordinarily two Ways, that is to Samian Earth, is what comes from the Isle say, by grinding on a Porphyry or Marble, in of Samos, and is of two Kinds; one is soft, like Manner as Sea Shells, Pearl, Hyacinth, Topazes, Emeralds, Sapphirs, Corals, Loadstone, Lapis Calaminaris, Tutty, and the like, are ground. The second Way is by pounding in a Mortar with Water, in order to reduce them to a fine Powder, as we do Lytharge, Ceruse, and Minium. The first, after they have been levigated, are made into Troches with Rose Water, and the next into Tablets with common Water.

Terra Perfica, or Indian Red, is Lemery. a dry red Earth that is brought us in little Stones that are of a moderate Hardness; the Shoe-makers use 'em to dye Shee-heels red; chuse the deepest colour'd. Terra Saponaria, in French Smeltin, or Fullers Earth, is a Kind of flippery glutinous Earth, that is heavy, of a yellow or blackish Colour, and does the same Thing as Soap, whence it was call'd Soap Earth, or the Earth the Fullers use to scour with. The Terra Selinusia is a greaty or clayey Earth, that is very like that of Chio; it is aftringent and resolutive, proper to take away Spots and Chops of the Skin, to soften Tumours of the Breast and Testicles, and to refolve. The Chio Earth is a Kind of feal'd Earth, or a fatty, sticky, ash-colour'd Earth that is brought from Chio; it is aftringent,

and removes Spots, &c. Terra Samia, or white, and crumbling, that sticks to the Tongue when apply'd to it, and is very like feal'd Earth. Some People call it Collyrium, because it serves sometimes to relieve the Eyes; the other is crusty and hard, tho' fomething unctuous, they call this Samius After, because it is found in shining Spangles, like Stars.

Besides there is Marga, Lithomarga, Stenomarga, Medulla Saxorum, Agaricus Mineralis, Lac Luna, or Stone Pith, Mineral Agarick, Moon Milk, which is a Kind of foft, friable, pithy, very white Stone, refembling Chalk, which is found in the Clefts of Rocks in some Parts of Germany; it is deterfive, aftringent, drying, consolidating, which diffolves coagulated Blood, and may

be us'd inwardly and outwardly.

Mr. Pomet observes in his Annotations made at the End of his Book, that this Stone Pith is found on the Side of the Signiory of Moscow, belonging to the Elector of Saxony, and near Gironne in Catalonia; that the Inhabitants of those Parts chuse some of this Earth after the Sun is down and has warm'd it, that has little Balls on it like Meal, with which they make Bread, mixing it with some true Flower, which has been confirm'd by several other Naturalists.

FIN I S.



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TOTHE

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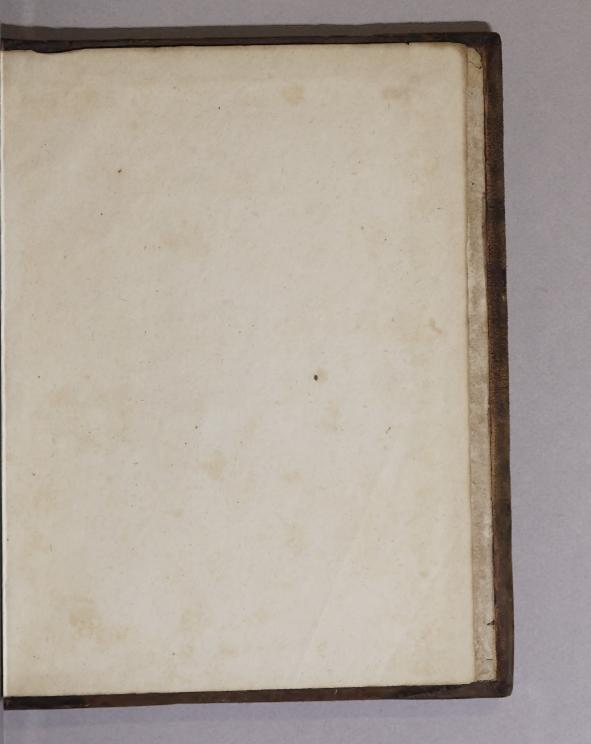
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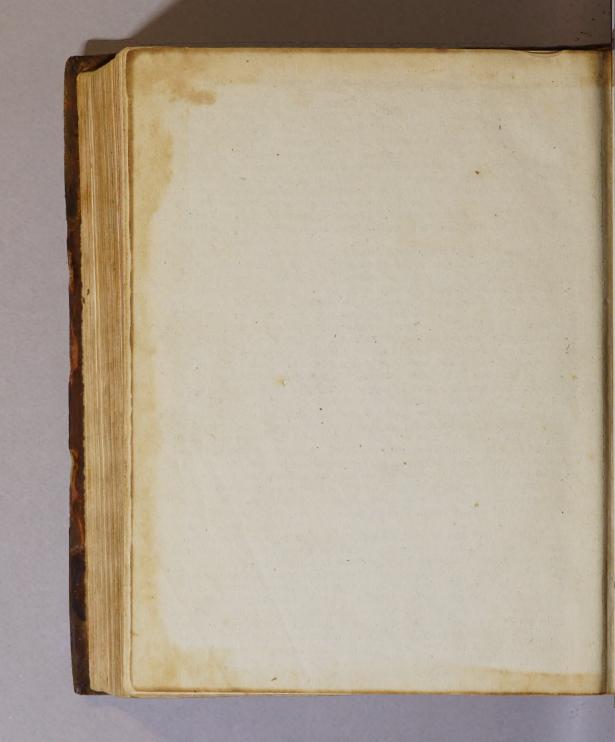
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